

Reference — Kodak Driver for Aldus PhotoStyler Software

This section of the manual includes introductory material about the Kodak Driver for Aldus PhotoStyler Software, and then includes detailed information and explanations of:

- ▶ The file format used for image archive files.
- ▶ The commands provided by the driver.
- ▶ The messages provided by the driver.
- ▶ Troubleshooting for the driver.

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Introduction

The driver supplied by Kodak for use with Aldus PhotoStyler software provides a variety of features that allow you to work with images on the DCS 200 Camera (with or without a hard disk), on an optional external hard disk, and on the PC hard disk. The driver allows you to:

- ▶ Acquire single images from the DCS 200 Camera or an external hard disk into Aldus PhotoStyler. You can then edit the images using PhotoStyler features and save them to the PC hard disk in a variety of file formats.
- ▶ Select one or more images in the image window, select all images, or select the last image from the DCS 200 Camera.
- ▶ Copy one or more selected images from the DCS 200 Camera hard disk or an external hard disk to a file called an image archive or archive file, on the PC hard disk.
- ▶ Copy one or more selected images from one archive file to a new archive file.
- ▶ Move one or more selected images from the DCS 200 Camera hard disk or an external hard disk to a new archive file on the PC hard disk or from one archive file to a new archive file. Unlike copying images, this action also deletes images from the DCS 200 Camera hard disk, or the external hard disk, or archive file after moving them to the new archive file on the PC hard disk.
- ▶ Delete selected images from the DCS 200 Camera hard disk or an external hard disk or delete images from an image archive file on the PC hard disk previously saved by this driver.

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File Format Used for Image Archive Files

Images saved as archive files to the PC hard disk by clicking COPY TO FILE or MOVE TO FILE from within the PhotoStyler driver supplied by Kodak can be read only with the PhotoStyler driver. An archive file on the PC hard disk can include multiple images. In addition to image data, an archive file includes thumbnails for each of its images, and all data from the "INFO" box for each of its images.

Color and monochrome images in these PC archive files are composed of uninterpolated data; they have not been "acquired" into PhotoStyler. This means they contain the 1.5 megabytes of data generated from the 1524 x 1012-pixel array in the camera back and stored on the DCS 200 Camera hard disk or on an external hard disk. If you select ten images (color or monochrome) from the DCS 200 Camera or an external hard disk and copy or move them to a single image archive file on the PC hard disk the size of the file will be approximately 15 megabytes. If you use the PhotoStyler driver to interpolate a single color image by acquiring it into PhotoStyler, the size of the single image file when saved in PhotoStyler format will be approximately 4.5 megabytes. Ten "acquired" color images will occupy approximately 45 megabytes. (Each acquired monochrome image saved in PhotoStyler format is 1.5 megabytes.)

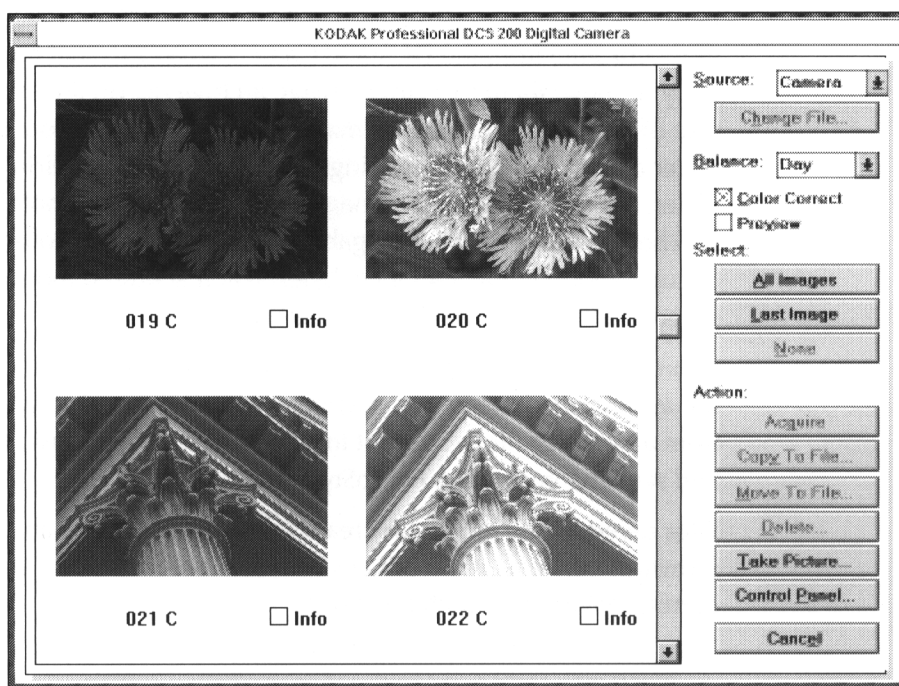
In order to work with an image from an archive file you should open the file as described in the next section. You can then select a single image from an archive file, acquire it into a PhotoStyler window, edit the data, and save the image as a PhotoStyler file.

Files saved by the driver are created with a ".KC2" filename extension. (Previous versions of the driver saved files with a ".KD2" extension; the current driver reads both file types.)

Commands

To use these features, you must first install the driver by following the series of one-time steps described in “Installing the Kodak Driver for Aldus PhotoStyler Software” on page 5-19. Then each time you want to use the driver, you run PhotoStyler, and choose KODAK DCS 200 from the **IMPORT** submenu of the PhotoStyler **FILE** menu. When you choose KODAK DCS 200, you will see the following dialog box on your PC monitor.

NOTE: If you are using a camera without an internal or external hard disk, and there is an image in the camera, you will only see that single image in the window. As each new image is made, it replaces the single image in the camera and in this window.



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The image window displays thumbnails, either from images on the DCS 200 Camera hard disk, from an external hard disk or from image archives previously saved in a file on the PC hard disk by this driver.

Thumbnails appear in the image window in the same logical order that images appear on the DCS 200 Camera hard disk, or on an external hard disk or in the PC archive file. You can scroll through the images by moving the vertical scroll box or scroll arrows on the window, or by pressing the Page Up, Page Down, Home, or End keys on the PC keyboard. Depending on the size and configuration of your monitor, you will see two or more thumbnails on each row, and two or more rows of thumbnails.

When working with images from a file from the PC hard disk instead of images from the camera or external hard disk, the filename appears at the top of the image window instead of the words "KODAK Professional DCS 200 Digital Camera."

Three-digit image numbers appear beneath each image. A "C" after the image number — if it appears — indicates a color image. If you click the small square "INFO" box beneath the lower right corner of an image, the information box, shown on the next page, appears on the screen. To close the information box, click on the *DONE* button. The data displayed includes, from top to bottom: the image number, time (displayed in 24-hour format) and date the image was made, the camera aperture, shutter speed, ISO setting, firmware version number (a date) of the camera when this image was produced, and the camera serial number. (The firmware is the control programming in the camera.) The camera aperture and shutter speed appear in this window as they appear in the camera LCD panel and viewfinder. The time and date are maintained by a permanent battery in the DCS 200 Camera. You update the date and time with the *SET CLOCK* choice described on page 8-16.

Finally, a text box at the bottom of the information box allows you to enter short descriptive material, up to 254 characters, regarding the image. Use the mouse or arrow keys to move through text once entered. The text will be saved with the image (on the hard disk in the camera back or an external hard disk), and will be saved with the image if it is moved or copied to an archive file. However, the text is not saved when the image is acquired in PhotoStyler.

Image Information

KODAK DCS-200

Image Number 2

Time 12:27:54

Date 07/24/92

Aperture 11

Shutter 60

ISO 100

070192

K380-0009

Done

An explanation of each additional option follows.

NOTE: You choose a command by clicking on it with the mouse. Or you can use a keyboard shortcut; to do so, press and hold the Alt key, press the key for the underlined letter in the command (for example the "L" in Last Image), then release both keys.

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SOURCE

Allows you to work with images from the DCS 200 Camera (choose CAMERA from the popup menu), from a file on the PC (choose FILE from the popup menu), or with images from an external hard disk (choose EXT DISK from the popup menu). CAMERA is the default. When working with a PC file, the filename appears at the top of the image window.

When you open the driver, the software looks first to the source in use at the end of your previous work session. If that source is not available (for example if you have deleted the file you were using), the software will look for a camera, then for an external hard disk, then for an archive file.

CHANGE FILE

Allows you to close the current archive file (its contents are shown in the image window), and open another archive file from the PC hard disk. Click on this button to display a standard PC open file dialog box. This button is dimmed unless you select FILE as the SOURCE.

BALANCE

This option applies only to color images.

Select an option to correspond to the original lighting conditions under which you made the image. The option you select will be used for color correction by the driver when the image is acquired. The actions described in this section do not affect the images stored in the camera (or on an attached external hard disk that has been used with the DCS 200 Camera); instead, these actions only affect the acquired image.

NOTE: If thumbnails or a preview are being viewed in color (you change to COLOR THUMBNAILS on the Control Panel), any changes you make in the BALANCE setting is immediately visible on the computer monitor.

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The **BALANCE** popup menu provides the following choices.

- DAY** Uses daylight color-correction values when acquiring the image.
- TUNG** Uses tungsten color-correction values when acquiring the image.
- TUNGBG40** Uses special tungsten color-correction values when acquiring the image, assuming you used a Schott BG-40 1mm filter (refer to “Optional Camera Equipment” on page 1-9 for availability information). Without the filter, color results may not be very accurate with a tungsten light source; however, acceptable color rendition can be obtained with this filter under tungsten lighting.
- FLUOR** Uses fluorescent color-correction values when acquiring the image.
- FLASH** Uses flash color-correction values when acquiring the image.
- CLICK** Allows you to provide color balancing data by clicking on a white or light gray area of a thumbnail or a preview. **CLICK** is always the preferred option. After choosing **CLICK**, the mouse pointer becomes a crosshair. Click on a white or light gray area of the image in a thumbnail or preview that is not overexposed. White balance values are calculated based on the point at which you clicked. The values are used for color balancing this and subsequent images you acquire until you change the values by choosing **CLICK** or another item from the **BALANCE** popup menu.

When using **CLICK**, we suggest that you view the image you want with **PREVIEW**, which displays a larger image and therefore more easily allows you to find a white area that is not

Day	Number of people
Monday	1
Tuesday	2
Wednesday	3
Thursday	4
Friday	5
Saturday	6
Sunday	7

If there is no white or light gray area in the image, take a photograph of a neutral gray or white card (for example KODAK Gray Cards, Publication No. R-27) under the current light conditions. Click on the preview (or thumbnail) of this image to set color correction values for these lighting conditions; then acquire the desired image(s).

NONE

Enhances the color in many images when you acquire the image. (When "on" an X appears in the check box to the left of this option). In the rare case that the acquired image quality is unsatisfactory, return to the driver, turn this option off and acquire the image again; no color correction will be applied.

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PREVIEW

Presents a single, enlarged version of the image — in color on a color monitor if the image is color — in the image window. You can scroll through images while in preview mode. Data displayed below the preview image indicate the image number, the current X and Y pixel location of the crosshair cursor on the preview image, and the red, green, and blue values at the current cursor location.

(Refer to “CLICK” on page 8-8 for an explanation of the use of PREVIEW with that feature.)

SELECT

Highlights images. (A narrow border surrounds highlighted images.) The buttons are useful for selecting images to delete, or to copy or move to the PC hard disk.

IMPORTANT: SELECT chooses images from the DCS 200 Camera (or from an external hard disk or from an archive file), not just thumbnails in the image window. For example, suppose you click on LAST IMAGE and then click on DELETE. The action does not merely delete the last image from computer memory, but in addition, these actions will delete the last image from the source (DCS 200 Camera hard disk or external hard disk or archive file).

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You can also select a single image by clicking on it. You can select multiple images by clicking on one image and then adding (or subtracting) from the selection by shift-clicking on other images (hold down the Shift key while you click on additional images).

Select choices are dimmed when PREVIEW is on and when there are no images on the camera or external hard drive.

ALL IMAGES

Highlights all images. This choice is dimmed when the SOURCE is CAMERA or EXT Disk and there are no images on the camera or external hard disk.

LAST IMAGE

Highlights the last image. This choice is dimmed when the SOURCE is CAMERA or EXT DISK and there are no images on the camera or external hard disk.

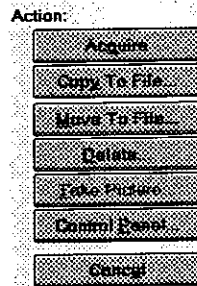
NONE

Click on this button to deselect all highlighted images.

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ACTION

Provides the following capabilities.



ACQUIRE

Allows you to acquire a single highlighted image into Aldus PhotoStyler. You can achieve the same effect by double-clicking on the thumbnail.

If more than one image is currently highlighted, you will acquire only the first of the selected images. (PhotoStyler allows you to acquire only one image at a time.)

You only acquire image data. You do not acquire the thumbnail, color correction data, or data from the INFO box.

NOTE: The ACQUIRE button is dimmed until you select an image(s).

COPY TO FILE...

Copies highlighted images, whether currently visible in the image window or not, to a single image archive file on the PC hard disk. The SOURCE can be either CAMERA, FILE, or EXT DISK. A standard PC save dialog box appears. Image data, a thumbnail, an image number (matching the original

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number used for the image on the DCS 200 Camera), and other data from the "INFO" box are saved for each image.

NOTES: The COPY TO FILE button is dimmed until you select an image(s).

Files saved by the driver are created with a ".KC2" filename extension. (Previous versions of the driver saved files with a ".KD2" extension; the current driver reads both file types.)

Do not take a new picture while an image(s) is being copied to a file.

MOVE TO FILE...

Performs the same function as COPY TO FILE, but in addition deletes the highlighted images (whether currently visible in the image window or not), from their source — a DCS 200 Camera hard disk, an external hard disk, or from an archive file on the PC hard disk. A dialog box provides you with the option of deleting the images.

NOTES: The MOVE TO FILE button is dimmed until you select an image(s), or if the SOURCE is FILE and the selected file is read-only.

Files saved by the driver are created with a ".KC2" filename extension. (Previous versions of the driver saved files with a ".KD2" extension; the current driver reads both file types.)

DELETE...

Deletes highlighted images (whether currently visible in the image window or not), from their source — either the DCS 200 Camera hard disk, an external hard disk, or the PC archive file. A dialog box warns you that images will be deleted. If all images in an archive file are deleted, the complete file is deleted.

NOTES: The DELETE button on the camera back does not function when the camera is connected to a computer; use the DELETE button on the software driver to delete images in this configuration.

The DELETE button is dimmed until you select an image(s), or if the SOURCE is FILE and the selected file is read-only.

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TAKE PICTURE...

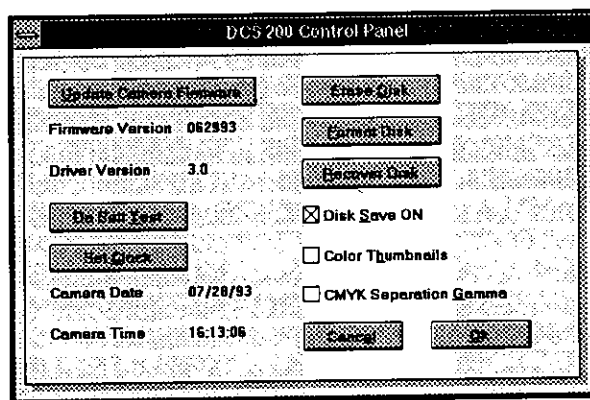
Issues a command that causes the camera to take a picture. There may be a several second delay to allow the Nikon N8008s to focus if needed. To take a picture the DCS 200 Camera must be connected to the PC, the SOURCE must be CAMERA (the button is dimmed when the source is FILE or EXT DISK), and the DCS 200 Camera must be turned on.

CONTROL PANEL...

Displays the following dialog box.

IMPORTANT: When the camera is attached to the computer, if you hold down the Control key when you select KODAK DCS 200 from the IMPORT submenu of the PhotoStyler FILE menu, you will bring up this dialog box directly. This is particularly helpful if there are corrupt data on the camera hard disk which prevent the normal dialog box from appearing. Using the Control key as described here brings you directly to this dialog box from which you can erase or format the hard disk or update camera firmware.

If no camera is currently connected to the computer, most items in the box below are not in effect and are therefore dimmed or do not appear.



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UPDATE CAMERA FIRMWARE Select this choice to update the firmware, the non-volatile memory containing the control programming for the camera. The firmware controls most of the features of the camera.

The software driver looks for a file named DCS200.HEX. The contents of the file DCS200.HEX are permanently transferred into the firmware in the camera. Approximately 45 seconds are required. The camera back liquid crystal display (LCD) displays the SCSI indicator while the transfer occurs. An error message is displayed if the DCS200.HEX file is not found.

This feature allows you to keep the firmware in the camera up-to-date without sending the camera to a service center, since new versions of the DCS200.HEX file that you receive can be copied to the camera with this command. It also allows you to replace the firmware in the camera with the current version if the firmware in the camera is acting erratically.

If you are unable to open the driver (and therefore cannot access the Control Panel containing this button), hold down the Control key on your keyboard while choosing the driver name from the ACQUIRE submenu. This will bypass the normal access to the driver and will place you directly in the Control Panel from which you can click on the UPDATE CAMERA FIRMWARE button.

If you are still unable to access the Control Panel, remove the camera back battery holder. Hold down the DELETE button on the camera back while you reinsert the battery holder (filled with charged batteries) and wake the camera.

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You see the characters "SCSI" on the camera back LCD.
Then update camera firmware as described above.

NOTE: if you are working with a camera without an internal hard disk, updating camera firmware deletes an image, if present, in RAM.

FIRMWARE VERSION The version of the firmware (control programming) in the camera currently attached to the computer.

NOTE: This firmware version may be different from the firmware version displayed in an information box for an individual image. The version in the control panel is the version of the camera currently connected to the computer. If a camera with different firmware was used to produce an image, then a different value will appear in the information box for that image.

DRIVER VERSION The version of the software driver for PhotoStyler currently in use.

DO SELF TEST Click this button to perform a diagnostic self-test of the DCS 200 Camera. Messages inform you of the outcome of the self-test. These data can be helpful for field debugging before you call Kodak with a problem.

NOTE: This action deletes an image, if present, in RAM. This means that if you are working with a camera without an internal hard disk or with a camera with a hard disk but disk save is off, you will lose the image in RAM if one was present.

SET CLOCK Click this button to set the date and time in the DCS 200 Camera. The date and time (in 24-hour format) are maintained in the camera back with a separate battery that is slowly recharged from the batteries you install. When you click this button, the date and time are automatically retrieved from the PC system clock and copied to the DCS 200 Camera.

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Each image is date and time-stamped when made. These data are shown when you display the information box for the thumbnail or the preview of an image by clicking on the small square "INFO" box beneath the lower right corner of the thumbnail or preview.

The date and time do not appear on the camera back LCD.

- CAMERA DATE Displays the date that is currently stored in the camera; this date becomes part of the date and time-stamp saved and displayed for each image in the image information box. If the control panel is not displaying the date "today," click on the SET CLOCK button to update this date from your computer system clock.
- CAMERA TIME Displays the time that is currently stored in the camera; this time becomes part of the date and time-stamp saved and displayed for each image in the image information box.

If this is not displaying the current time click on the SET CLOCK button to update this time from your computer system clock.
- ERASE DISK Select this choice to erase a hard disk, either an internal hard disk in the camera or an external hard disk currently connected to the PC (depending on which is chosen as the SOURCE). This is the same as selecting all images from the image window and deleting them by pressing the DELETE button.
- FORMAT DISK Click this button to format the hard disk in the camera or an external hard disk (depending on which is chosen as the SOURCE). This action is similar to formatting a floppy diskette or hard disk on your computer system. Existing images on

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the hard disk are permanently erased and cannot be recovered.

Be patient as the formatting occurs; you will not be able to take any other action until you see a message that formatting was completed successfully.

If you are having unexplainable problems with the hard disk in the camera or with an external hard disk (perhaps you are losing images, or you have been seeing an "E" followed by a single digit, for example "E2," on the camera back LCD), use this feature to reformat the hard disk and try again.

IMPORTANT: If you are working in an environment where security is a consideration, you should reformat the camera hard disk or external hard disk with this button after you save needed images to your computer hard disk. This will ensure that images on the hard disk cannot be recovered with the RECOVER DISK button described next.

RECOVER DISK Click this button to recover images that have been deleted from an internal hard disk in the camera or an external hard disk currently connected to the PC (depending on which is chosen as the SOURCE). The images you recover may have been previously deleted with:

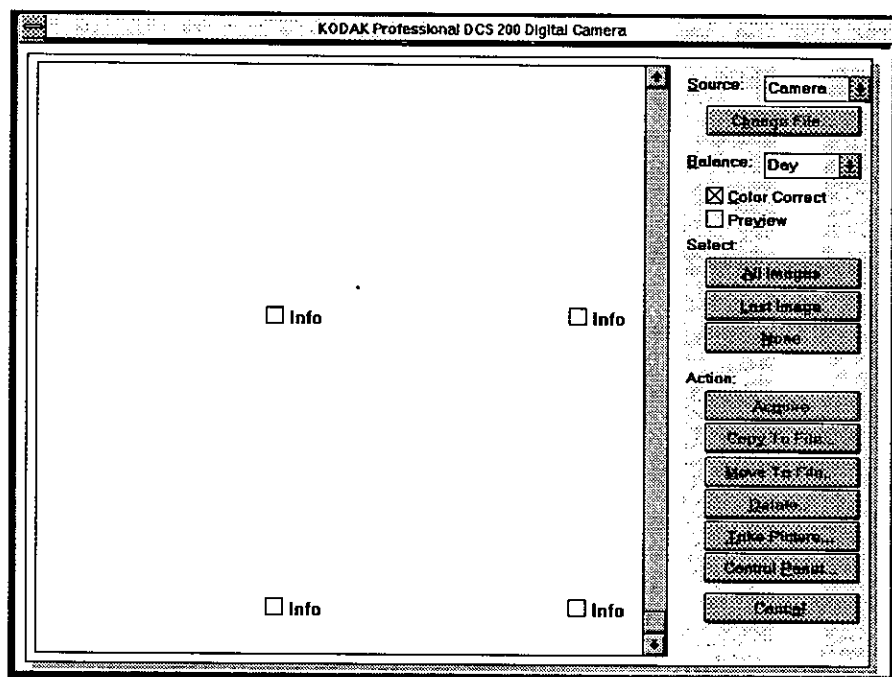
- ▶ The DELETE button on the outside of the camera back.
- ▶ The DELETE button in the software driver.
- ▶ The ERASE DISK button on the CONTROL PANEL of the software driver.

You cannot use this option to recover the images that were deleted when you formatted the disk with the FORMAT DISK choice on the Control Panel.

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When you click the RECOVER DISK button, every image location on the hard disk is examined and recovered. The most recent image that was in each location is recovered.

Blank images at the end of the hard disk are also “recovered” as shown below. This means that the hard disk when recovered is full of images, preventing you from taking additional images. You will need to delete images before you can take additional pictures; these blank images can be selected by clicking and shift-clicking on them and can then be deleted by clicking on the DELETE button. (Blank images are not placed at the end of a recovered external hard disk.)



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The following examples explain the action of this button.

Example 1. Suppose that you have a new camera with an internal disk capable of storing 50 images, and that you have taken ten pictures and delete one. If you recover the hard disk, you will have all ten images — the original nine images will still be there, and you will have recovered the tenth image. In addition you will recover 40 blank images at the end of the disk.

Example 2. Suppose that you have a new camera with an internal disk capable of storing 50 images, and that you have taken ten pictures, have deleted one, and taken another picture. In this case, the newest picture overwrites the deleted tenth image. If you recover the hard disk, you will obtain fifty images, the nine original images, the latest picture you have taken, plus forty blank images at the end of the hard disk. The picture you deleted that was overwritten with a new image cannot be recovered.

Example 3. Suppose that you have filled the hard disk with images, and erased all images. If you recover the disk with this button before you take any additional pictures you will have recovered all of the images you erased.

Example 4. Suppose you have a hard disk capable of holding 50 images. Over time you have taken pictures, erased the disk, taken more pictures, deleted some, taken additional pictures, and so on — never having more than 40 images on the hard disk. As you take new pictures while there are still active images on the hard disk, the new images are written into the next empty location on the hard disk; deleted images that are overwritten become unrecoverable. If you delete all

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images and take three new pictures, the three new images will overwrite the oldest three images on the hard disk.

If you recover the disk, you will recover 50 images. The three new images will be at the start of the disk, followed by the 37 images from the end of the disk that have not been overwritten by previous actions, followed by 10 blank images.

IMPORTANT: If you are working in an environment where security is a consideration, you should reformat the disk with the **FORMAT DISK** button described earlier after you save images you need to your computer hard disk. This will ensure that images cannot be recovered with the **RECOVER DISK** button.

DISK SAVE ON When “on” (an X appears in the check box to the left of this option when on), new pictures you take are saved to a hard disk. Click this feature off when you do not want images saved to disk. When off, each new picture you take replaces the previous one.

COLOR THUMBNAI Click this feature on (an X appears in the check box to the left of this option when on), to display thumbnails in color.

CMYK SEPARATION GAMMA When on (an X appears in the check box to the left of this option when on), images you acquire will have a gamma applied that is lower than the default value. The lower gamma results in less noise in the CMYK channels when you separate the image.

CANCEL Exits from the dialog box, canceling changes you may have made to the **DISK SAVE ON** and **COLOR THUMBNAI** choices. Alternately, press the Escape key to exit from the dialog box.

OK Exits from the dialog box.

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Messages — Kodak Driver for Aldus PhotoStyler Software

You use Aldus PhotoStyler software on your PC to acquire images from the DCS 200 Camera; to do so, you choose KODAK DCS 200 from the IMPORT submenu of the PhotoStyler FILE menu. The PhotoStyler software driver was designed by Kodak specifically for this purpose. That driver adds new messages to PhotoStyler; an explanation of those messages — listed in alphabetical order — follows.

NOTE: For an explanation of other Aldus PhotoStyler messages, refer to the instructions for that product.

Message	Possible Cause	Suggested Solution
"Bad informational data has been found in the data. Continue and save the rest of the image?"	You are trying to copy or move image(s) to an archive file and one or more of the images is a blank image.	Click OK or move all selected non-blank images to the archive file, or click Cancel to cancel the operation without creating the file.
"Bad label in External Drive."	A problem is detected when trying to access the external hard disk that has been used with the camera.	Shut down the computer, disconnect the external hard disk, connect the external hard disk to the camera, and turn on the camera. This action may recreate the label on the external hard disk. <i>continued</i>

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Message	Possible Cause	Suggested Solution
		<i>continued from previous page</i> Then turn off the camera, remove the external hard disk, connect the hard disk to your computer, turn on your computer and try reading from the external hard disk again. If necessary, recover the hard disk from the control panel. If you are successful, acquire or move images you want to save from the external hard disk to your computer hard disk. If you are still unable to access the external hard disk, format the disk from the control panel (this will destroy all images on the hard disk).
"Camera was not found. Wake up Camera, check all cables, and check for SCSI ID conflict."	The camera is not awake.	Wake the camera and click the Try Again button.
	The SCSI cable is not connected properly.	Verify that the SCSI cable is connected properly between the computer and the camera. If not, turn both off, reconnect them, and try again. <i>continued</i>

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Message	Possible Cause	Suggested Solution
<i>continued from previous page</i> "Camera was not found. Wake up Camera, check all cables, and check for SCSI ID conflict."	The camera SCSI ID is set improperly.	Reset the camera SCSI ID so that it is different from other devices connected to the computer. To do so, turn off the camera, then the computer. Reset the camera SCSI ID. Restart.
"Cannot find filename."	You are trying to open an archive file that the driver cannot locate.	Try another drive, another directory, or another file.
"Cannot have same file open for acquiring from and saving to."	While working with an archive file (the Source is File), you have selected images, chosen "Copy to File" or "Move to File," and tried to save the images using the same filename as the opened archive file.	Try again, but this time enter a filename different from the name of the open archive file.
"Cannot locate the SCSI host adapter."	The driver does not find the Future Domain SCSI Host Adapter.	<p>You must have a Future Domain SCSI Host Adapter installed to access files from the DCS 200 camera. (Refer to "Required SCSI Interface" on page 1-7.)</p> <p>If necessary have a technician install this board, or perform troubleshooting on an already installed board.</p>
"Cannot read DCS200.HEX. Invalid file format."	There is a problem with the DCS200.HEX file.	Reinstall the software driver as described in "Installing the Kodak Driver for use with Aldus PhotoStyler Software" on page 5-19, then try again.

Message	Possible Cause	Suggested Solution
"Cannot read <i>filename</i> ."	An unusual condition was detected when trying to read this file, for example the file is in the wrong format.	Try again, and if unsuccessful reinstall the driver. If problems persist you may be unable to access images from this file.
"Cannot read <i>filename</i> , Invalid file format or file missing."	An unusual condition was detected when trying to read this file, for example the file is in the wrong format.	Try again and if unsuccessful reinstall the driver. If problems persist you may be unable to access images from this file.
"Cannot save because the disk is full. XXX KB needed to save."	There is not enough room on the disk to save the file.	Choose another disk, and try again.
"Cannot write <i>filename</i> . Check your disk space or write protection."	There is not enough room on the disk to save the file, or the device or media is write protected.	Choose another disk, or change the protection on this disk and try again.
"Could not acquire this image because informational data was invalid."	You have tried to acquire a blank image, or an image that has been corrupted.	Blank images cannot be acquired. Work with another image. If it is not a blank image, you may not be able to acquire this image.
"Could not save any images. All images had bad informational data."	You have tried to save a blank image to an archive file, or an image that has been corrupted.	Blank images cannot be saved to archive files. Work with another image. If it is not a blank image, you may not be able to acquire this image.
"DCS (Digital Camera System) has been disconnected or shut off."	The camera and the computer have been disconnected.	Turn off the camera and the computer, reconnect them, and try again.

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Message	Possible Cause	Suggested Solution
"Deleting complete file."	The file is being deleted.	No action is required.
"Disk has been recovered successfully."	You initiated a disk recovery by clicking Recover Disk in the Control Panel. It was completed successfully.	No action is required.
"Do you want to delete ALL images on the camera?"	You are about to delete all images on the camera (not only the images in the image window).	Make the appropriate choice.
"Do you want to delete ALL images on the External Drive?"	You are about to delete all images on the external hard disk (not only the images in the image window).	Make the appropriate choice.
"Do you want to delete ALL images in FILE?"	You are about to delete all images in the archive file on your PC hard disk (not only the images in the image window).	Make the appropriate choice.
"Do you want to delete these images?"	You are about to delete all selected images. (The selection may include images not currently appearing in the image window).	Make the appropriate choice.
"Do you want to format disk? All images will be deleted and cannot be RECOVERED! This can take several minutes."	You have clicked on Format Disk in the control panel.	Make the appropriate choice. If you continue, all images will be erased and cannot be recovered.

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Message	Possible Cause	Suggested Solution
"Do you want to update camera firmware? DCS200.HEX will be downloaded to the camera."	You have clicked on Update Camera Firmware in the Control Panel.	Make the appropriate choice. If you continue, firmware in the camera will be updated from the DCS200.HEX software file.
"Filename exists, Do you want to replace it?"	You are about to overwrite an existing file with a new archive file.	Make the appropriate choice.
"Firmware update failed."	You have clicked on Update Camera Firmware in the Control Panel, but the update failed.	Reinstall the software driver as described in "Installing the Kodak Driver for use with Aldus PhotoStyler Software" on page 5-19, then try again.
"Firmware update has completed successfully."	You have clicked on Update Camera Firmware and the update completed properly.	No action needed.
"Format has completed successfully."	You have formatted the disk.	No action needed.
"Hardware Error"	A problem with the hardware has been detected.	Verify that all SCSI connections are correct (if necessary turn off all equipment to alter the connections), make sure the camera has a unique SCSI ID, and try again.
"Illegal Request"	A problem with the hardware has been detected.	Verify that all SCSI connections are correct (if necessary turn off all equipment to alter the connections), make sure the camera has a unique SCSI ID, and try again.

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Message	Possible Cause	Suggested Solution
"Informational data not available for this image."	You have clicked on the Info box for a blank image.	Work with another, non-blank image.
"Modified text cannot be saved to file because file is read-only. All modified text will be lost!"	You have typed text in the information box for an image in an archive file but the archive file is read-only.	Turn off the Read Only attribute property for this file and try again.
"More than one image was selected. Only the first one will be acquired."	You have selected more than one image and then clicked Acquire.	Click OK to acquire the first image of the selected thumbnails. Or click Cancel, select a single image, and then click Acquire.
"Not enough disk space."	There is not enough room on the disk to save the file.	Choose another disk, and try again.
"Not enough memory."	There is not enough memory to complete the operation.	Be certain that you have the minimum system requirements (refer to "IBM PC or Compatible Computer — Hardware and Software" on page 1-6. Shut down other applications if they are running.
"One of the colors is saturated. Please pick another point for balancing."	After choosing Click from the Balance menu you have clicked on an overexposed area of the image.	Choose Click again from the Balance popup menu and then click on a white area that is not overexposed. (Refer to the explanation of Click on page 8-8; it describes using Preview with Click to avoid choosing an overexposed area.)

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Message	Possible Cause	Suggested Solution
"Parity error detected during transfer."	A hardware error has been detected in the cabling or in the camera.	Verify that all SCSI connections are correct (if necessary turn off all equipment to alter the connections). Try other cables if available. If the problem persists, contact Kodak.
"Self Test has completed successfully."	The self test is done.	No action needed.
"The Camera was not found. Try the following. Wake up Camera Turn on Camera power Check all cables Check for SCSI ID conflicts Check for dead batteries Switch to file"	The camera is not awake.	Wake the camera and click the Try Again button.
	The power to the camera is off.	Slide the power switch to on, wake the camera, and click the Try Again button.
	The SCSI cable is not connected properly.	Verify that the SCSI cable is connected properly between the computer and the camera. If not, turn both off, reconnect them, and try again.
	The camera SCSI ID is set improperly.	Reset the camera SCSI ID so that it is different from other devices connected to the computer. To do so, turn off the camera, then the computer. Reset the camera SCSI ID. Restart.

continued

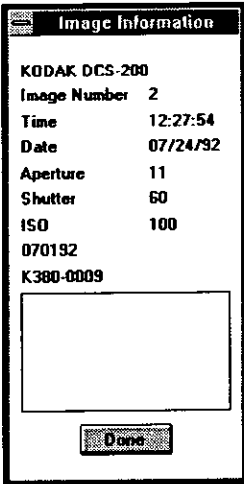
.....

Message	Possible Cause	Suggested Solution
<i>continued from previous page</i> "The Camera was not found. Try the following. Wake up Camera Turn on Camera power Check all cables Check for SCSI ID conflicts Check for dead batteries Switch to file"	You have connected the camera to a different computer (or to the same computer to which you previously connected an additional SCSI device), resulting in a SCSI ID conflict.	Reset the camera SCSI ID so that it is different from other devices connected to the computer. To do so, turn off the camera, then the computer. Set the camera SCSI to a unique value. Restart.
	There are dead batteries in the camera back.	Turn off the camera, replace the batteries, and try again.
	You have deliberately chosen the driver when no camera was connected with the intention of working with images in an archive file.	Click "Switch to File" and open an archive file from your computer hard disk.
"The External Hard Drive has been disconnected or shut off."	The external hard disk and the computer have become disconnected.	Repeat the steps for making this connection presented in the tabbed section "Using an external hard disk."
"The External Hard Drive was not found, or if present has not been formatted by using it with the camera. Switching Source back to Camera."	You have changed the Source to EXT Disk but the external disk is not found.	Repeat the steps for making this connection presented in the tabbed section "Using an external hard disk."
"The External Hard Drive was not found, or if present has not been formatted by using it with the camera. Switching Source back to FILE."	You have changed the Source to EXT Disk but the external disk is not found.	Repeat the steps for making this connection presented in the tabbed section "Using an external hard disk."

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Message	Possible Cause	Suggested Solution
"The preference file: FILENAME is not compatible with current Version 3.0 driver. Please reinstall 3.0 driver."	A problem occurred when the driver was installed.	Reinstall the driver, following the directions in "Installing the Kodak Driver for use with Aldus PhotoStyler software" on page 5-19. Then try again.
"This Driver is not compatible with the Camera. Please get a newer Driver."	An outdated or improperly installed driver is in use.	Reinstall the driver, following the directions in "Installing the Kodak Driver for use with Aldus PhotoStyler software" on page 5-19. Then try again.
"This image is no longer available. Please try again."	You have taken a picture while acquiring an image.	Try again, but do not take a picture while another image is being acquired.
"Timeout during Command phase." "Timeout during Data phase." "Timeout during Message phase." "Timeout during Selection phase." "Timeout during Status phase." "Timeout waiting for initial bus free phase."	A problem with the hardware has been detected.	For any of this group of messages, verify that all SCSI connections are correct (if necessary turn off all equipment to alter the connections), make sure the camera has a unique SCSI ID, and try again.

Troubleshooting — Kodak Driver for Aldus PhotoStyler Software

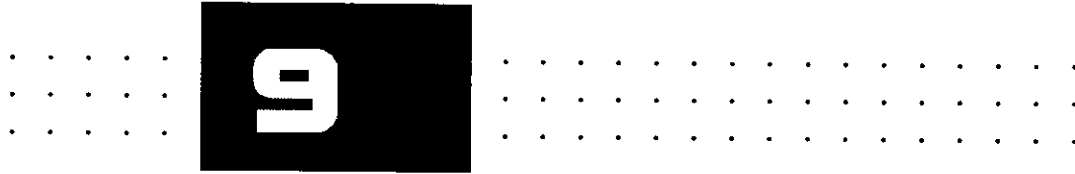
Trouble	Possible Cause	Suggested Solution
The KODAK DCS 200 Camera choice does not appear on the Import submenu.	You have not installed the driver software.	Install the driver for PhotoStyler software.
The time and/or date in the information box for an image(s) is incorrect.	The computer system clock from which the clock in the camera was set, contained an incorrect time and/or date.	Reset the computer system clock. Connect the DCS 200 to your computer, run the driver, and reset the clock in the camera using the Set Clock choice on the Control Panel.
	The internal clock battery (a permanently-installed separate battery in the camera back) is low.	Leave good batteries in the camera back for several days to charge the internal battery.
	You are unable to open the software driver when you choose its name from the Import submenu while the camera is connected to the computer.	The firmware in the camera has become corrupted. Update camera firmware as described on page 8-15.

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Trouble	Possible Cause	Suggested Solution
You are experiencing erratic camera behavior or unusual characters appear on the camera back liquid crystal display (LCD). You know the batteries are charged. You have tried to update the camera firmware but are unable to do so — perhaps the camera does not respond to the computer software driver.	The firmware in the camera has become corrupted.	Update camera firmware as described on page 8-15.
All acquired images have a consistent defect.	There is dirt or dust on the imager.	Clean the imager as described in “Cleaning the Imager” on page 6-55.
Acquired images have random defects.	The ISO setting is too high.	Take the picture again with a lower ISO setting.
	You are using a SCSI cable longer than those supplied with the DCS 200 Camera.	Use only the supplied or specified cables.
The PC crashes when the camera is attached.	There is a SCSI ID conflict.	Reset the SCSI ID on the camera as described in “Setting the SCSI ID on the DCS 200 Camera” on page 4-3.

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Trouble	Possible Cause	Suggested Solution
You clicked the Take Picture button, but no picture is recorded.	When the camera is connected to a PC, and the software driver window is opened, the camera will not go to sleep. This can exhaust the batteries in the camera back. (Perhaps you left the camera and computer on for an extended period of time while attending to other business.)	Recharge the batteries in the camera back, or replace the batteries in the camera back with charged batteries. We recommend that you operate the camera from the AC battery charger/adaptor when connected to a PC.
	The camera is off.	Turn on the camera.
	The camera is not awake.	Wake the camera and try again.
	The camera hard disk or external hard disk is full (the disk indicator is flashing).	Delete images from the hard disk, use an external disk drive if one has not been attached, or use a different external hard disk if the one that is attached is full.



Specifications

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KODAK Camera Back

- ▶ Five models are available: DCS 200ci (color, 50-image internal storage), DCS 200c (color, single-image storage), DCS 200mi (monochrome, 50-image internal storage), DCS 200m (monochrome, single-image storage), and DCS 200 IR (infrared, monochrome, 50-image internal storage).
- ▶ 1524 x 1012-pixel charge coupled device (CCD) full-frame imager, resulting in images composed of 1.5 megapixels of data
- ▶ Color imaging back with built-in color filter array (EI equivalent to ISO 50, 100, 200, 400), or monochrome imaging back (EI equivalent to ISO 100, 200, 400, 800)
- ▶ Optional 80 megabyte internal hard disk, stores 50 images
- ▶ Two megabyte dynamic random-access memory (DRAM) buffer
- ▶ Built-in, liquid crystal display (LCD) status display
- ▶ Two external controls:
 1. Set SCSI ID
 2. Delete last image on hard disk (if present)
- ▶ SCSI 25-pin, female, subminiature D connector with standard pin assignments for Macintosh II computer
- ▶ Remote power adapter/battery charger connector IEC 320, male connector
- ▶ Six AA-type rechargeable NiCad batteries
- ▶ Tripod mount
- ▶ Third-party, optional, external hard disk attaches to SCSI connector. A 120 megabyte model stores up to 75 images; an 80 megabyte model stores up to 50 images; a 40 megabyte model stores up to 22 images.

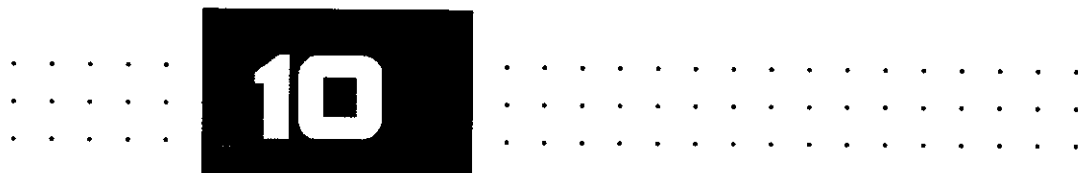
.....

Software for the KODAK Professional DCS 200 Digital Camera

- ▶ Drivers for use with image-editing software

Other

- ▶ Nikon Type B focusing screen modified for imager size
- ▶ Dimensions. Nikon N8008s camera body with KODAK camera back attached: 8.2 in. (20.8 cm) high x 6.7 in. (17.0 cm) wide x 4.5 in. (11.4 cm) deep. KODAK camera back contributes 3.9 in. (9.91 cm) to height.
- ▶ Weight: approximately 3.75 lbs. (1.70 kg). Includes KODAK camera back, Nikon N8008s camera body with supplied lens, batteries in camera back and camera.
- ▶ Operating temperatures: 40° to 130° F (4° to 54° C).
- ▶ Operating humidity: 8 to 85% relative humidity with maximum wet bulb 79° F (26° C), without condensation.



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Optional Equipment & Spare Parts List for the KODAK Professional DCS 200 Digital Camera

Ordering Optional Kodak Equipment from Your Dealer

To order items in this category, contact your dealer. For product information, including detailed information on options and accessories, and to obtain catalog numbers where not provided, in the United States call 1-800-242-2424 ext. 77 and outside the United States contact your local Kodak representative, except as noted below.

NOTE: None of the items described in this section is supplied with the DCS 200 Camera.

Item Name	CAT No.	Description
External Drive Power Supply and Terminator Kit	834 3790	<p>This accessory is used to connect an external hard disk to your computer. This kit includes a power supply, terminator, cable, and manual. The external hard disk is not supplied with the DCS 200 Camera. For specific requirements information refer to the tabbed section "Using an external hard disk" in this manual.</p> <p>To order replacement spare parts after you obtain this kit, refer to the spare parts section below.</p>

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Item Name	CAT No.	Description
KODAK Color Filter Wheel Accessory	130 2447	This accessory consists of a motor-driven red, green, and blue filter wheel with support electronics that enables the DCS 200mi monochrome camera to produce high-quality color images when used with a supported Macintosh computer.
KODAK Professional DCS 200 External Battery Adapter	893 0893	This accessory is a replacement for the nickel cadmium battery clip in the KODAK Camera Back. The accessory allows the DCS 200 Camera to be used with the Quantum Battery 2 (see "Quantum Battery 2" below).
KODAK XL 7700 and XLT 7720 Digital Continuous Tone Printer		Prints black and white or color reflective prints and transparencies, with output sizes of 8.5 x 11-inch (21.6 x 27.9-cm) or 11 x 11-inch (27.9 x 27.9-cm).
KODAK 450GL Digital Color Printer		Produces reflective prints on 3.9 x 5.5-inch (9.9 x 14.0-cm) paper.
KODAK XLS 8300 Digital Printer		Prints 300 dot-per-inch, 24-bit color or eight-bit gray scale images up to 8.5 x 10-inches (21.6 x 25.4-cm) to Kodak Ektatherm print paper or transparencies.
KODAK ColorEase PS Printer		Prints 300 dot-per-inch, 24-bit color or eight-bit gray scale images to lettersize or A4 coated paper or transparencies. NOTE: For product information on any of these printers, in the United States call 1-800-242-2424 ext. 77; in Canada call 1-800-465-6325; in other locations contact your local Kodak representative.

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Ordering Optional Equipment from Other Vendors

To order items in this category, contact the individual vendors listed below.

NOTE: None of these items is supplied with the DCS 200 Camera.

Item Name	Description
Quantum Battery 2 (QB2)	The QB2 is a rechargeable, external power pack that extends the operating time for the DCS 200 Camera. For information contact Quantum Instruments Inc., 1075 Stewart Avenue, Garden City, NY 11530, 516-222-0611. Requires the KODAK Professional DCS 200 External Battery Adapter (see above).
Schott 1 mm BG-40 filter	Improves color fidelity under tungsten lighting. Available from Schott Glass Technologies Inc., 400 York Avenue, Duryea, PA 18642, 717-457-7485. These filters must be cut for screw mount holders; Tiffen Manufacturing Corporation, at 90 Oser Avenue, Hauppauge, New York, 11788, 516-273-2500, can cut and mount these filters in any lens mount you specify.
Pelican Pro Case 1550	Hard shipping case for the DCS 200 Camera. Available from Bristol Case Company, 34 Elton Street, Rochester, NY, 14607, 1-800-343-3408.
Software Drivers	<p>You may be able to obtain software drivers prepared by companies other than Kodak that enable you to use the camera on computer platforms in addition to the Macintosh or PC, or with operating systems in addition to the Macintosh operating system or Windows.</p> <p>You may also be interested in developing your own software driver.</p> <p>For information contact Kodak.</p>

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Item Name	Description
Custom focusing screens	Custom focusing screens for the Nikon N8008s camera can be produced by Maracle Industrial Finishing Company, Inc., 39 Commercial Street, Webster, NY 14580, telephone 716-872-5100, fax 716-872-0285.

Ordering Spare Parts from Kodak

To order any of the following spare parts for your DCS 200 Camera, call Kodak Parts Services 24 hours a day, 7 days a week (except Sunday morning midnight to 7:00 a.m. eastern time zone) at 1-800-431-7278 (fax 1-716-588-3051).

Part Name	Part No.	Description
Macintosh Computer Cables	966156	25-pin to 25-pin SCSI cable
	966157	25-pin to 50-pin SCSI cable
IBM/Compatible PC Cables	953867	50-pin to 25-pin SCSI2 cable for use with the Future Domain SCSI Host Adapter
Gender Changer	966976	Macintosh SCSI gender changer for use with the Macintosh IIx or PowerBook computers. This item is not supplied with the DCS 200 Camera.
SCSI Terminator	777515	50-pin SCSI terminator for Macintosh computers except the IIx. PowerBook computers require two SCSI terminators, other Macintosh computers require one. This item is not supplied with the DCS 200 Camera.

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Part Name	Part No.	Description
25-pin Terminator	966158	25-pin terminator for use with external hard disks or newer Macintosh computer models. For more information refer to the tabbed section "Using an external hard disk" in this manual or to "Making the SCSI Connection" on page 4-9.
AC Battery Charger/Adapter	692375 3B4480	AC battery charger/adapter
NiCad Batteries	725814	Sanyo Cadnica N-600AA Nickel-Cadmium (NiCad) Battery
SCSI Host Adapter Cards for the PC		NOTES: These circuit boards are also available from Future Domain. Refer to "Required SCSI Interface" on page 1-7 of the user's manual for more information. These items are not supplied with the DCS 200 Camera.
	951540	Future Domain SCSI2 Host Adapter Card for PCs with an AT-style bus
	951887	Future Domain SCSI2 Host Adapter Card for PCs with Micro Channel-style bus

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Part Name	Part No.	Description
Internal Hard Disk Upgrade Kit		<p>This package (part number 966978)—which must be ordered and installed by the Kodak authorized service center for your country — consists of an internal hard disk (part number 966121) and connecting cable (part number 951875). This kit can be used to replace a faulty internal hard disk or to add an internal hard disk to a camera model without one.</p> <p>An internal hard disk is supplied with models DCS 200ci, DCS 200mi, and DCS 200IR, but is not supplied with models DCS 200c and DCS 200m.</p>
External Drive Power Supply and Terminator Kit		<p>NOTES: To order the entire kit, refer to the listing for this item in the section “Ordering Optional Kodak Equipment from Your Dealer” above. Once you have obtained the kit, order replacement parts below if needed. For more information refer to the tabbed section “Using an external hard disk” in this manual.</p> <p>These items are not supplied with the DCS 200 Camera.</p>
	966980	External Power Supply for external hard disks
	966158	25-pin terminator for use with external hard disks

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Part Name	Part No.	Description
Software Package		We encourage you to obtain software updates electronically as described in "Appendix A Updating Your Kodak Software Driver" in this manual. However, you can also order them as below.
	966319	Driver for Macintosh Adobe Photoshop
	966320	Driver for Aldus PhotoStyler (3.5 inch diskette)
	951877	Driver for Aldus PhotoStyler (5.25 inch diskette)
External Drive Support Kit		Contains the following items, or order them separately as needed.
	966437	Extender Pad
	966419	Strap
	966797	Adhesive-backed strips (2)

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Ordering New Manuals from Kodak

To order an additional user's manual, call Kodak Advertising Distribution 8:00 a.m. to 5:00 p.m. (eastern time zone), Monday through Friday, at 1-800-233-1650 (fax 1-716-588-4807).

Part Name	Part No.	Description
User's Manual	951880	DCS 200 User's Manual

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Appendices

This section includes the following appendices.

A — Updating Your Kodak Software Driver

B — External Battery Adapter

C — Using an Infrared (IR) Camera

D — Repackaging Instructions for the KODAK Professional DCS 200
Digital Camera

E — KODAK Professional DCS 200 Digital Camera Problem Report Form

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Appendix A — Updating Your Kodak Software Driver

This appendix provides information on obtaining and installing updated software drivers including:

- ▶ Directions for downloading software drivers electronically from several sources. (We recommend this as the preferred method of obtaining driver updates.)
- ▶ Directions for obtaining software drivers on diskettes directly from Kodak.
- ▶ Directions for installing the software driver and updating camera firmware once you have obtained the updated version of the driver.

Downloading Software Drivers Electronically

When Kodak prepares updated versions of the software drivers for the DCS 200 Camera, it makes those updates available electronically on several computer networks. Downloading an update from one of those networks is the quickest way to obtain the most current driver. You receive the driver directly — in a timely way — at your convenience.

Downloading a driver requires: a modem, communications software, a telephone line, and an account on a supported network. These items are not supplied by Kodak.

Kodak provides current versions of the drivers on the following networks; directions after the table describe how to download drivers from each of these network services.

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Network	Description/Address	Includes Kodak Driver for Adobe Photoshop (Macintosh) ?	Includes Kodak Driver for Aldus PhotoStyler (PC)?
CompuServe	<p>"Gives you access to over 1700 products and services, plus the knowledge and expertise of over a million CompuServe members worldwide."</p> <p>CompuServe, 5000 Arlington Centre Boulevard, PO Box 20212, Columbus, OH, 43220. Telephone 614-457-8600 and 1-800-848-8199.</p>	Yes	Yes
PressLink	<p>"Designed to facilitate the electronic delivery of graphics, photos and information for the newspaper industry worldwide."</p> <p>PressLink, One Herald Plaza, Miami, FL, 33132-1693. Telephone 305-376-3989, fax 305-376-3993.</p>	Yes	Yes
AppleLink	<p>"The official Apple on-line resource, global information network, and electronic-mail system for the Apple community."</p> <p>AppleLink, Apple Computer, Inc., PO Box 10600, Herndon, VA 22070-0600. Telephone 408-974-3309, fax 703-318-6701.</p>	Yes	No

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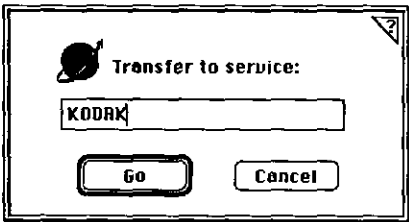
Downloading a Driver from CompuServe

This section assumes that you have an account on CompuServe and that you are familiar with procedures to initiate and terminate a session on this network. If you need information on any of these topics, contact CompuServe at the address provided above.

There are a large number of communications software packages that you can use to access CompuServe. The instructions below assume that you are using either the Macintosh or Windows (PC) version of the software application "CompuServe Information Manager." If you are not currently using CompuServe and want to do so, you may wish to obtain and use this low-cost application which is widely available. If you are using another software product to access CompuServe, review the steps below; they provide information on the name and location of the file(s) you will need to download.

NOTES: The steps below were prepared using CompuServe Information Manager, Macintosh version 2.1.2 and Windows version 1.0.4. The screens were generated from the Macintosh computer version; similar screens appear on the PC.

- 1. Initiate a computer work session and run CompuServe Information Manager.
- 2. Follow these steps to enter the KODAK FORUM. (It may have a different name, for example KODAK CD FORUM.)
 - A. Choose GO from the SERVICES menu.
 - B. Type KODAK in the text box.



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- C. Click GO (Macintosh), or OK (Windows).
 - D. Wait as you are connected to CompuServe and transferred to the KODAK FORUM; if you are not a member of the forum, join the forum when prompted to do so.
3. Follow these steps to list all "DCS200" files.
- A. Choose SEARCH from the LIBRARIES menu.
 - B. Type DCS200 in the filename text box.

Search For Library Files:

Filename:

User ID:

Keywords:

Submitted Since

☐ Last Visit (6/24/93)

☐ One Week Ago (6/17/93)

☒ 1/1/80

☒ About the Forum [1]

☒ Kodak News [2]

☒ Photo CD General [3]

☒ Photo CD Software [4]

☒ Writable CD [5]

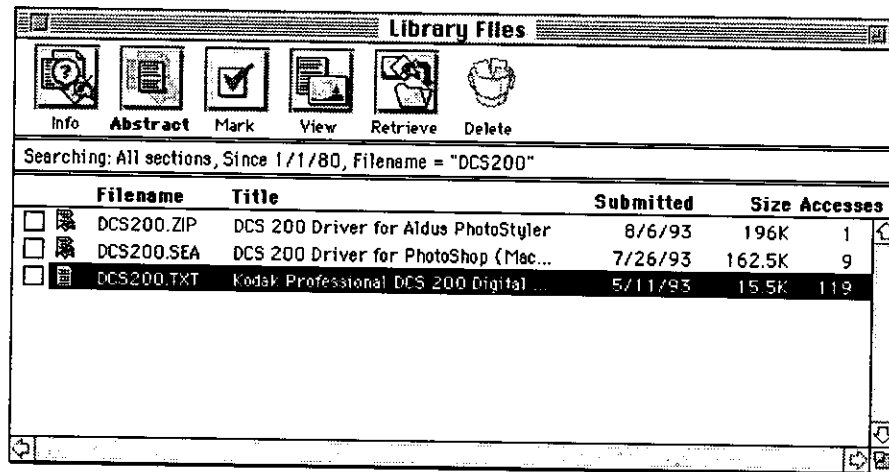
☒ International [6]

☒ Color Management [7]

☒ Kodak Printers [8]

- C. Click ALL; this ensures that the search occurs in all library sections in this forum.

- D. (Optional) Change the period of time to be searched.
- E. Click **SEARCH**; you see a list, like the one below, of DCS 200 driver updates and other DCS 200 files.



The screenshot shows a window titled "Library Files". At the top, there is a toolbar with icons for "Info", "Abstract", "Mark", "View", "Retrieve", and "Delete". Below the toolbar, a search bar contains the text "Searching: All sections, Since 1/1/80, Filename = 'DCS200'". The main area of the window displays a table with the following data:

	Filename	Title	Submitted	Size	Accesses
<input type="checkbox"/>	DCS200.ZIP	DCS 200 Driver for Aldus PhotoStyler	8/6/93	196K	1
<input type="checkbox"/>	DCS200.SEA	DCS 200 Driver for PhotoShop (Mac...	7/26/93	162.5K	9
<input type="checkbox"/>	DCS200.TXT	Kodak Professional DCS 200 Digital ...	5/11/93	15.5K	119

- F. Select the driver for Adobe Photoshop (if you are working on a Macintosh computer), or Aldus PhotoStyler (if you are working on a PC).

NOTE: The files may have different names at different times.

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4. Follow these steps to download the file to your hard disk.
 - A. Click **RETRIEVE**; you see a save dialog box.
 - B. Navigate through your hard disk as needed to choose a location to which the driver will be downloaded. (We suggest that you do not change the filename.)
 - C. Click **SAVE** (Macintosh) or **OK** (PC).
 - D. Wait as the driver is downloaded from the network to your computer; a progress box provides information on the download process.
5. Finish with other business on CompuServe as needed, and then terminate your work session.

Continue below if you are working with the driver for Adobe Photoshop (Macintosh), or at “Extracting Driver Files for Aldus PhotoStyler (PC)” on the next page if you are working with Aldus PhotoStyler (PC).

Extracting Driver Files for Adobe Photoshop (Macintosh)

The data you have downloaded contains several files that have been combined and compressed into a single file. Compression results in a smaller file size — an advantage since it reduces the amount of time needed to transmit the data to your computer.

Now that you have downloaded the file, you must decompress it. However, the file is self-extracting, meaning that you do not need to obtain an additional software application to extract the files. You do not need to be connected to CompuServe while you complete the steps in this section.

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Follow the steps below to expand the compressed data into the files you will need for the update.

1. Double-click the icon on your hard disk for the file you downloaded; it is probably named DCS200.SEA.
2. Read the information screen that appears and click **CONTINUE**.
3. A **SAVE AS** dialog box appears; navigate through your hard disk as needed to choose a location at which the extracted files — in a new folder — will be saved.
4. Wait as the files are extracted, and then click **QUIT**.

Continue at the end of this appendix at the section “Installing the Software Driver.”

Extracting Driver Files for Aldus PhotoStyler (PC)

The data you have downloaded contains several files that have been combined and compressed into a single file. Compression results in a smaller file size — an advantage since it reduces the amount of time needed to transmit the data to your computer.

Now that you have downloaded the file, you must decompress it. The file has been stored in ZIP format. To decompress it you can use the shareware version of PKUNZIP that is available on CompuServe and elsewhere. We assume that you have that application, which is commonly used with PCs. Rules regarding its usage are available with the application. (If you do not have that shareware file, use the file finder in the IBM forum to find it, and then download that file.)

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You do not need to be connected to CompuServe while you complete the steps in this section.

There are a variety of ways to extract the files; one follows.

1. Place the PKUNZIP application into the folder with the file you downloaded.
2. While in the Windows File Manager, drag the icon for the downloaded file — it is probably named DCS200.ZIP — over the PKUNZIP.EXE icon.
3. Wait as the files are decompressed, responding to queries that may appear from the software.

NOTE: When the process is complete, the contents of the window on your display may not be refreshed, meaning that you may not see the decompressed files. To view them, change to another directory, and then return to this one.)

Continue at the end of this appendix at the section “Installing the Software Driver.”

Downloading a Driver from PressLink

This section assumes that you have an account on PressLink and that you are familiar with procedures to initiate and terminate a session on this network. If you need information on any of these topics, contact PressLink at the address provided above. Separate directions are provided for obtaining driver files for Adobe Photoshop (Macintosh) and Aldus PhotoStyler (PC).

Downloading and Expanding Files for Adobe Photoshop

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(Macintosh)

1. Initiate a computer work session on the Macintosh computer and run your PressLink 2000 application.
NOTE: The steps below were prepared using PressLink 2000, version 6.1.4, while running System 7.1 on a Macintosh computer.
2. Navigate to the location of the driver by opening the following folders.
 - A. Open VENDORS. The folder is located in the PRESSLINK™ 2000 SERVICES window; you may need to scroll to locate it.
 - B. Open EASTMAN KODAK.
 - C. Open TECH SUPPORT.
 - D. Open MACINTOSH UTILITIES.
3. Open the driver you want. The driver may be named DCS 200 MAC, although it may be stored with different names at different times.
4. Follow these steps to download the file to your hard disk.
 - A. Click the DOWNLOAD icon; you see a SAVE As dialog box.
 - B. (Optional) Navigate through your hard disk as needed to choose a location to which the file will be downloaded.
 - C. Click OK.
 - D. Wait as the file is downloaded from the network to your computer; a progress box provides information on the download process.
5. Choose DISCONNECT from the NETWORK menu. You leave the network,

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but remain in the PRESSLINK 2000 application.

6. Click on the EXPAND icon at the top of the driver window.
7. Follow these steps to expand the files you have downloaded.
 - A. Click on the filename on the left side of the window.
 - B. (Optional) Change the name of the folder to which the files will be expanded.
 - C. (Optional) Navigate through your hard disk as needed to choose a location to which the folder with the files will be expanded.
 - D. Click SAVE ALL.
 - E. Wait as the data are expanded; a progress box provides information on the expand process.
8. Quit the PressLink application.

Continue at the end of this appendix at the section "Installing the Software Driver."

Downloading and Unpacking Files for Aldus PhotoStyler (PC)

1. Initiate a computer work session on the PC, run your copy of PressLink System 2000 for Windows, and connect to the host.

NOTE: The steps below were prepared using PressLink System 2000 for Windows, version 1.1.2, while running Windows version 3.1.
2. Navigate to the location of the driver by opening the following folders.
 - A. Open VENDORS.
 - B. Open EASTMAN KODAK.
 - C. Open TECH SUPPORT.
 - D. Open DOS UTILITIES.

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3. Click on the driver you want. The driver may be named DCS200PC.PKG, although it may be stored with different names at different times.
4. Follow these steps to download the file to your hard disk.
 - A. Choose GET ATTACHED FILES from the INFO SERVICES menu (or click on the ATTACHED FILE button).
 - B. (Optional) When you see the GET ATTACHED FILES dialog box, navigate through your hard disk as needed to choose a location to which the file will be downloaded.
 - C. Click SAVE.
 - D. Wait as the file is downloaded from the network to your computer; a progress box provides information on the download process.
 - E. Close the FILE TRANSFERS dialog box.
5. Choose DISCONNECT from the NETWORK menu. You leave the network, but remain in the PRESSLINK SYSTEM 2000 application.
6. Follow these steps to unpack the file you have received.

NOTE: The data you have downloaded contain several files that have been compressed and packed into this single file. Compressing the data results in a smaller file size, an advantage since it reduces the amount of time needed to transmit the driver files to your computer. Now you must unpack these data.

 - A. Choose PACK/UNPACK FILES from the FILE menu.
 - B. Navigate through your hard disk to locate the package you downloaded.
 - C. Click on the package file name; it is probably DCS200PC.PKG.
 - D. Click SELECT PACKAGE; at the bottom of the dialog box you see a listing of the individual files that compose the package.

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- E. Click UNPACK.
 - F. Navigate through your hard disk as needed to choose a location to which the file will be unpacked.
 - G. Be certain that the option to unpack ALL FILES is selected.
 - H. Click OK.
 - I. Wait as the files are unpacked one-by-one; a progress box provides information on the process.
7. Quit the PressLink application.

Continue at the end of this appendix at the section "Installing the Software Driver."

Downloading a Driver from AppleLink

This section assumes that you have an account on AppleLink and that you are familiar with procedures to initiate and terminate a session on this network. If you need information on any of these topics, contact AppleLink at the address provided above. Only the driver for Photoshop is available on AppleLink; the driver for PhotoStyler is not available.

1. Initiate a Macintosh computer work session and run your AppleLink application.

NOTE: The steps below were prepared using AppleLink, version 6.1.

2. Select APPLELINK SERVICES from the WINDOWS menu.

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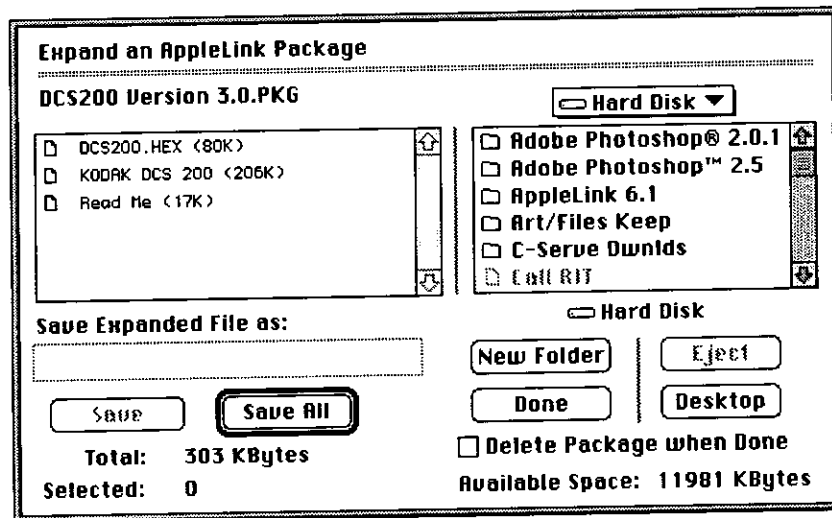
3. Navigate to the location of the driver by moving into the following folders.
 - A. Open SOFTWARE SAMPLER.
 - B. Open 3RD PARTY DEMOS/UPDATES.
 - C. Open SOFTWARE UPDATES.
 - D. Open COMPANIES E-J.
 - E. Open EASTMAN KODAK.
4. Open the current version of the DCS 200 file.

NOTE: That object may have different names at different times, for example it may be named DCS200 PHOTOSHOP PLUG-IN VERSION 3.0.
5. Follow these steps to download the file to your hard disk.
 - A. Click the DOWNLOAD icon; you see a SAVE As dialog box.
 - B. Navigate through your hard disk as needed to choose a location to which the file will be downloaded.
 - C. Click OK.
 - D. Wait as the file is downloaded from the network to your computer; a progress box provides information on the download process.
6. Finish with other business on AppleLink as needed, and then terminate your work session.

Expanding Driver Files for Adobe Photoshop

The file you have downloaded is a single package containing several data files. You must now follow the steps below to expand the data you have downloaded. You do not need to be connected to AppleLink while you complete the steps in this section.

1. Double-click the icon on your hard disk of the file you downloaded. (Perhaps it is named DCS200 PHOTOSHOP PLUG-IN VERSION 3.0.)
2. You see an AppleLink screen like the following; note in this example that the package contains three files (DCS200.HEX, KODAK DCS 200, and READ ME), shown on the left of the dialog box.



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3. Navigate through your hard disk (on the right of this dialog box) as needed to choose a location to which the extracted files will be saved.
4. Click **SAVE ALL**.
5. Wait as the files are extracted.
6. Choose **QUIT** from the **FILE** menu.

Continue below at the section "Installing the Software Driver."

Obtaining Software Updates Directly from Kodak

You can order diskettes containing current versions of the Kodak Driver for Adobe Photoshop Software and/or the Kodak Driver for Aldus PhotoStyler Software. Refer to the "Software Package" entry in the tabbed section of this manual "Optional Equipment & Spare Parts List" for ordering information.

If you obtain software directly from Kodak, install it as described in the next section.

Installing the Software Driver

This section describes how to update the driver on your hard disk (either the Kodak Driver for Adobe Photoshop Software or the Kodak Driver for Aldus PhotoStyler Software), and how to update the firmware in your camera using the updated driver files.

The section assumes that you have downloaded and expanded driver files from one of the three networks as described earlier in this appendix, or that you have received a new diskette from Kodak with these files.

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Updating the Kodak Driver for Adobe Photoshop Software (Macintosh)

1. Complete all the steps in *“Installing the Kodak Driver for Adobe Photoshop Software”* beginning on page 4-33, except as noted here.
 - ▶ Since you will be replacing files with new versions, you may wish to save the older versions of the files (named DCS200.HEX, KODAK DCS 200, and READ ME) by copying them to a backup diskette.
 - ▶ If the files have been downloaded from a network (instead of obtained on a diskette), use the downloaded files from their location on your hard disk rather than from the diskette.
 - ▶ When you copy the new files to the appropriate location on your hard disk, you will be prompted to confirm that you want to replace the existing files. After backing them up, as suggested just above, you can replace the files.
2. Access the new driver by completing all the steps in *“Accessing the Kodak Driver for Adobe Photoshop Software”* beginning on page 4-36.
3. Update your camera with the new firmware by completing all the steps in *“Updating Camera Firmware in the DCS 200 Camera”* beginning on page 4-39.

The software and camera are now ready for use.
4. Exit the driver and quit Photoshop.

- The software and camera are now ready for use.

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Appendix B — External Battery Adapter

The KODAK Professional DCS 200 External Battery Adapter, CAT No. 893 0893, an accessory available from Kodak, is a replacement for the battery holder supplied with the KODAK Camera Back. The accessory allows the camera to be used with the Quantum Battery 2 (QB2).

(The QB2 is a rechargeable, external power pack that extends operating time for the DCS 200 Camera. For information on the QB2, contact Quantum Instruments Inc., 1075 Stewart Avenue, Garden City, NJ 11530, telephone 516-222-0611.)

NOTE: The accessory and QB2 unit only provide power to the KODAK Camera Back, and not to the Nikon N8008s camera. The batteries in the Nikon camera body will still need to be replaced when exhausted.

Directions for using this accessory follow.

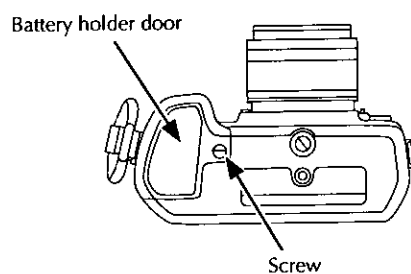
1. Turn off the DCS 200 Camera.
2. If the AC battery charger/adapter is connected, disconnect it from the camera back.

WARNING: Do not connect the AC battery charger/adapter to the DCS 200 Camera while the External Battery Adapter accessory is in the camera back. To use the AC battery charger/adapter, you **MUST** remove the External Battery Adapter accessory, and replace it with the KODAK Camera Back battery clip filled with rechargeable nickel cadmium batteries.

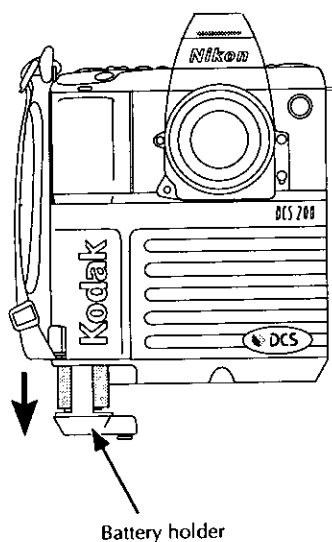
3. Lay the DCS 200 Camera on its back on a flat, steady surface, with the bottom facing you.

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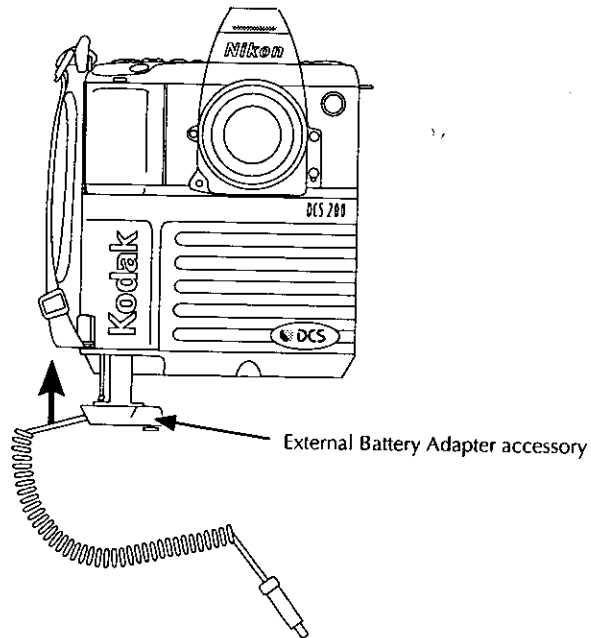
4. Release the screw on the battery holder door with a coin by giving it a slight one-quarter turn in the counterclockwise direction until the slit in the screw is horizontal.



5. Gently pull out the battery holder.

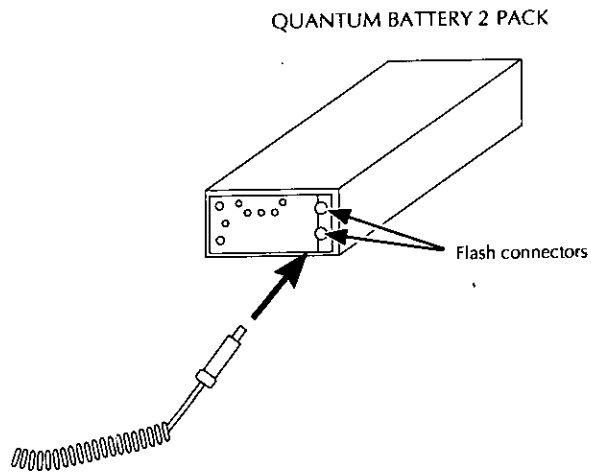


-
6. Insert the KODAK Professional DCS 200 External Battery Adapter accessory into the empty battery chamber.



7. Engage the screw on the bottom of the KODAK Professional DCS 200 External Battery Adapter accessory by giving it a one-quarter turn in the clockwise direction with a coin.

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8. Plug the cord into either of the “FLASH” connectors on your Quantum Battery 2 pack. (The QB2 is not supplied with this accessory.)



WARNING: Only the QB2 is supported; do not use any other battery pack with this accessory.

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Appendix C — Using an Infrared Camera

This appendix provides information for customers who have purchased the KODAK Professional DCS 200IR Digital Camera, the infrared (IR) version of the camera.

This appendix assumes that you are familiar with infrared photography, and provides only the following introductory material specific to the DCS 200IR.

- ▶ The DCS 200IR is a monochrome camera with an internal hard disk.
- ▶ Unlike other DCS 200 models that incorporate a cover glass that blocks infrared light, the DCS 200IR has a standard cover glass that allows infrared light to reach the imager.
- ▶ The spectral response of the DCS 200IR is 420 to 1,000 nanometers at greater than 5% quantum efficiency.
- ▶ The best focusing (the sharpest results), are obtained if you use Micro Nikkor lenses. Other lenses will work, but may produce results that are less sharp, since the visible spectrum and the IR content of the image focus at a different point with other lenses.

If you must use a lens other than a Micro Nikkor, stop down to f/8 or greater (for maximum depth of field which may minimize the effects of the IR focus shift), or use the IR compensation dot on the lens — if present — after manually focusing.

- ▶ The DCS 200IR is not recommended for use — and may not provide satisfactory results — with the KODAK Color Filter Wheel Accessory. If it must be used with that accessory, you must use an IR blocking filter over the camera lens; however, the results may not be as good as if a monochrome camera were used.
- ▶ With all models of the DCS 200, you can manually set the ISO only to values supported by the camera system; for the DCS 200IR those

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include 100, 200, 400, and 800. However, with all models you are allowed to use the Nikon N8008s camera exposure compensation to extend exposure selections. The table below suggests initial values for several lighting conditions using exposure compensation; using these values allow you to gain several stops. (If you were to shoot outside without exposure compensation, the results would be significantly overexposed.)

Lighting Conditions	Suggested Initial Nikon N8008s Exposure Compensation Value for the DCS 200IR Camera with no filter
Daylight — sunny	-1.7 (use a lower value for cloudy conditions)
Tungsten	-2.7
Fluorescent	-0.7

- ▶ We recommend that you bracket to try to ensure proper exposure.
- ▶ If you use filters that block visible light, the Nikon N8008s light meter and autofocus will not work. However, both should work if you use a #25 Red Filter over the camera lens.
- ▶ Many publications contain information about IR photography and IR filters. For example, the "Handbook of KODAK Photographic Filters," CAT No 152 8108, Kodak Publication B-3, includes a variety of data on Kodak filters, including filters intended for use in IR photography. These filters can be used with the DCS 200IR. This publication can be ordered by contacting Kodak Advertising Distribution 8:00 a.m. to 5:00 p.m. (eastern time zone), Monday through Friday, at 1-800-233-1650 (fax 1-716-588-4807).

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Appendix D — Repackaging Instructions for the KODAK Professional DCS 200 Digital Camera

If you are having difficulties using your KODAK Professional DCS 200 Digital Camera, **please contact a Kodak representative before returning your unit for service.** (In the United States, call the Kodak Information Center (KIC) at 1-800-242-2424, extension 77, between the hours of 8:00 a.m. and 8:00 p.m., eastern time zone, Monday through Friday. In other countries, call your nearest Kodak representative.) **If service is required, your Kodak representative will instruct you how to return the unit to the nearest service center for repair and will issue a return authorization number.**

Also, please make sure that you have filled out and returned your Warranty Registration card; warranty service will not be provided without return of the Warranty Registration card or dated proof of purchase.

If you need to repackage your Camera to ship it in for repair, please follow these instructions, **being sure to use the original shipping carton and packing materials.** (If the original packaging has been discarded or is not available, packing will be at the owner's expense.)

For system testing and calibration after repair, **all major system components (Nikon camera body, DCS 200 Camera back, cables, and AC adapter/charger) must be returned together.**

IMPORTANT: DO NOT PACKAGE LENSES, SOFTWARE, OR MANUALS.

1. Fill out the enclosed KODAK Professional DCS 200 Digital Camera Problem Report Form (Appendix E). Be certain your return address is complete.

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2. Disconnect all cables from the DCS 200 Camera.
3. Remove the lens from the Nikon camera body.
4. Cover the lens opening with the camera body cap.
5. Insert the Nikon camera body and the DCS 200 camera back into the static shielding bag and seal the bag with tape.
6. Place all major system components (see above) into their appropriate locations within the original shipping carton.
7. Place the completed Problem Report Form on the top of (inside) the shipping carton.
8. Close and seal the shipping carton with tape.
9. Ship as instructed by your Kodak representative.

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Appendix E — KODAK Professional DCS 200 Digital Camera Problem Report Form

Customer Return Address

Name _____
Company _____
Address _____

City _____ State _____ Zip _____
Phone () _____

Equipment Description

DCS 200 Camera Serial Number — K _____

(See the bottom of the DCS 200 Camera next to "S/N." DCS 200 serial number begins with a "K.")

Problem Description

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KODAK Professional DCS 200 Digital Camera
Part No. **951880** Kodak is a trademark.

Revised 10-93
Printed in U.S.A.

Important information—using an external hard disk

Since the printing of the supplement, "Using an External Hard Disk with a Computer," changes have occurred that affect the way you use the MASS Microsystems HitchHiker external hard drive with a computer.

► The KODAK Accessory

The KODAK External Drive Power Supply and Terminator Accessory may be used with MACINTOSH Computers or with IBM PC/compatibles. The Accessory is approved for worldwide use and includes:

- ✓ a Power Supply,
- ✓ a Line Cord (replaceable for different outlet voltages, 100 or 240 V),
- ✓ a 25-pin Terminator.

You must use the 25-pin Terminator if you are transferring images from the external hard drive to:

- an IBM PC/compatible or
- a MACINTOSH Computer requiring a cable connection to the HitchHiker.

Recent changes

► The 25-pin Terminator

The 25-pin Terminator is now packaged with the DCS 200 Digital Camera (refer to the DCS 200 user's manual for its application with the Camera). In addition, you can order the Terminator by calling KODAK Parts Services. The Terminator's part number is 966158.

► MASS Microsystems offers a power supply

A power supply is now offered by MASS Microsystems. If a power supply was not included with your HitchHiker hard drive, check with MASS Microsystems for its:

- availability and
- supported use with your computer and outlet voltage.

Remember, electrical service—different outlet voltages (100 V / 240 V) may vary from location to location where you intend to use the equipment.

► Connecting the external hard disk directly

MASS Microsystems no longer supports the connection of a HitchHiker external drive to a MACINTOSH Computer using the power from the ADB port (pages 18-19 of the supplement). Instead, you must use one of the available power supplies. The note on page 19 of the supplement describes that connection for the KODAK External Drive Power Supply.



PROFESSIONAL
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Supplement to the KODAK Professional DCS 200 Digital Camera User's Manual

Using an External Hard Disk with a Computer

This supplement and the accompanying software are protected by United States and international copyright laws. You may make one backup copy of the enclosed software and one copy of this supplement. Do not make additional copies of the software or copies of the supplement or electronically transmit them in any form whatsoever, in whole or in part, without the prior written permission of Eastman Kodak Company.

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Important Safeguards and Precautions

Please refer to the front of the DCS 200 User's Manual for other safeguards and precautions.

- **Heed Warnings**—Heed all warnings on the equipment and in the operating instructions.
- **Retain the instructions and the packaging**—Retain the safety and precautions' instructions for future reference. Retain the packaging for use if the equipment needs to be shipped.
- **Handling**—Do not drop the MASS Microsystems HitchHiker disk drive.
- **Water and moisture**—Do not use the External Drive Power Supply near water—for example, near a sink, or in a wet room or basement.

WARNING: Do not use the equipment in rain and do not immerse the equipment in water or other liquids.

- **Object or liquid entry**—Never push foreign objects of any kind into the equipment openings. The objects could touch dangerous voltage points or short out parts and cause a fire or electric shock. Never spill liquid of any kind on the equipment.
- **Power sources**—You should operate the External Drive Power Supply only from the type of power source indicated. If you are not sure of the type of AC power that will be used, consult a dealer or local power company. Be certain the switch on the bottom of the External Drive Power Supply is set to match the available power source.
- **Single-use**—Use the External Drive Power Supply only with the MASS Microsystems HitchHiker drives. Other brands may be damaged by the External Drive Power Supply.
- **Power cord protection**—Route the External Drive Power Supply and other cords so that you are not likely to walk on them or pinch them with items placed on or against them; pay particular attention to the cords at plugs, receptacles, and the point where they leave the equipment.
- **Grounding**—The External Drive Power Supply is equipped with a three-wire grounding type plug with a third (grounding) pin. The three wire plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace the obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

- **Lightning**—To protect the equipment during a lightning storm, or any time when you will leave the equipment unattended and unused for long periods of time, unplug the External Drive Power Supply from the power outlet. This will protect the equipment from damage caused by lightning or power-line surges.
- **Temperature**—MASS Microsystems recommends operating the external hard disk between 41 °F and 131°F, 8 to 85 percent humidity, and 79° F maximum wet bulb temperature, non-condensing.
- **Servicing**—Do not attempt to service the equipment yourself. Opening or removing covers may expose you to dangerous voltage or other hazards.
- **Damage requiring service**—If the External Drive Power Supply housing has been damaged (cracked or broken open)—unplug the External Drive Power Supply from the wall outlet to avoid exposure to dangerous voltage.

NOTE: Refer to the warranty statement at the back of this supplement for additional information regarding the service of your equipment. KODAK does not service the external hard disk. If you have service questions on the MASS Microsystems HitchHiker, refer to the MASS Microsystems' HitchHiker User's Manual.

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Introduction

Whom this supplement is for

This supplement is intended for users of the KODAK Professional DCS 200 Digital Camera while using an external hard disk with either a MACINTOSH Computer, or IBM PC or compatible computer.

The supplement provides instructions for using an external hard disk with your computer along with the KODAK External Drive Power Supply and Terminator Accessory. This supplement:

- Explains how to determine when you should use the External Drive Power Supply and Terminator Accessory.
- Lists the supported external hard disks that can be used.
- Refers you to the DCS 200 User's Manual for a description on how to connect the hard disk to your DCS 200 Camera.
- Shows you how to select the SCSI identification on the external hard disk.
- Shows you how to connect the computer, the external hard disk, and the External Drive Power Supply and Terminator Accessory when the external hard disk is used as the sole device, or as part of a SCSI chain.
- Describes how to access images from the external hard disk from within the driver for ADOBE Photoshop Software or ALDUS PhotoStyler Software.

IMPORTANT: Do not connect the external hard disk to the DCS 200 Camera while connected to the KODAK Color Filter Wheel Accessory.

Do not connect the external hard disk and the DCS 200 Camera to a computer **at the same time**.

Determining if you need to purchase the External Drive Power Supply and the Terminator Accessory

- You must always use the External Drive Power Supply and Terminator Accessory when transferring images from an external hard disk drive to an IBM PC or compatible computer.
- We recommend you use the Accessory when using an external hard disk drive with all MACINTOSH models, except the MACINTOSH IIx. The Power Supply portion of the Accessory can be used with this model, see "Special MACINTOSH connections" in this supplement.
- It may be possible with some MACINTOSH models, equipped with a standard keyboard and mouse, to transfer images from an external hard disk drive to the computer, without having to use the Accessory. This is accomplished by connecting the external hard disk drive directly to the computer's SCSI port (or via an 18-inch, 30-pin to 25-pin cable in the PowerBook's case) along with connecting the ADB power cable (supplied with the external hard disk drive), between the computer and the external hard disk drive.
- Refer to the list on page 14 of the MACINTOSH Computers* that we have tested with the HitchHiker hard disk drive. With the exception of the Quadra 900 and 950, all of these models may allow you to transfer images from an external hard disk drive to the computer without using the Accessory. If the direct connection method does not work (i.e., the external hard disk drive fails to spin up), then you must purchase the External Drive Power Supply and Terminator Accessory to transfer images from an external hard disk drive to your MACINTOSH Computer.

***NOTE:** For compatibility with other MACINTOSH Computers, check the MASS Microsystems HitchHiker User's Manual or call MASS Microsystems' customer service center.

Supported external hard disks

This supplement supports the use of the MASS Microsystems HitchHiker hard disk drive only. The HitchHiker is sold separately and is not available from Eastman Kodak Company.

The following hard disks are supported by the KODAK Professional DCS 200 Digital Camera:

- MASS Microsystems HitchHiker 120 Megabyte (MB) Hard Disk Drive, model HK120. Holds 75 images.
- MASS Microsystems HitchHiker 80 Megabyte (MB) Hard Disk Drive, model HK80. Holds 50 images.
- MASS Microsystems HitchHiker 40 Megabyte (MB) Hard Disk Drive, model HK40. Holds 22 images.

IMPORTANT: These hard disks are preformatted and loaded with MACINTOSH system software, and can be used as a general-purpose storage device for that computer. However, once attached to the DCS 200 Camera, the hard disk no longer functions as a general-purpose hard disk for the MACINTOSH Computer (unless reformatted with MASS Microsystems' utility software). Once the hard disk has been used with the DCS 200 Camera, you can only access image data with a MACINTOSH Computer or a PC with the supplied software driver for ADOBE Photoshop Software or ALDUS PhotoStyler Software. This means you must copy any files you want to preserve from the hard disk *before* you attach the hard disk to the DCS 200.

What's included with the Accessory

The External Drive Power Supply and Terminator Accessory, CAT No. 834 3790, consists of:

- External Drive Power Supply part number 966980
- 25-pin terminator, part number 966158,
- Line Cord,* part number 480779,
- This supplement, part number 692238,
- Software Package; includes:
 - KODAK Driver for ADOBE Photoshop Software (3.5-in.), part number 966319
 - KODAK Driver for ALDUS PhotoStyler Software (3.5-in.), part number 966320
 - KODAK Driver for ALDUS PhotoStyler Software (5.25-in.), part number 951877.

* The part number for the Line Cord shown here is for the North American configuration. The line cord will vary in plug configuration from country to country depending on the AC outlet used.

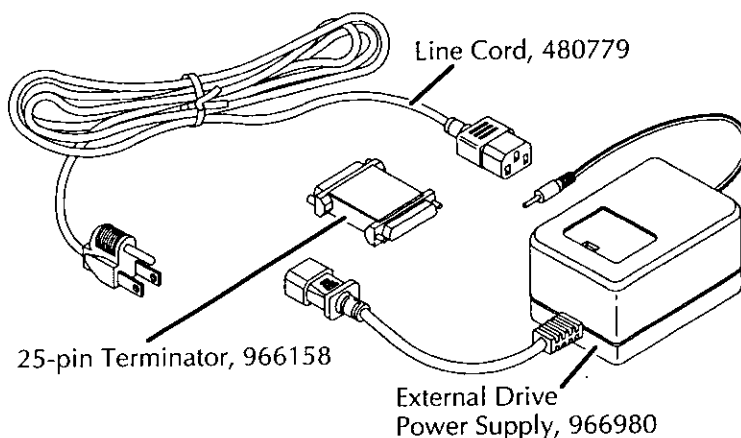


Figure 1—External Drive Power Supply & Terminator Accessory, CAT No. 834 3790

Other items that may be needed, but are not included

- MASS Microsystems HitchHiker external hard disk,
- 25-pin to 25-pin SCSI cable,*
- 50-pin high density (HD) to 25-pin SCSI cable,*
- 50-pin to 25-pin SCSI cable,*
- 30-pin to 25-pin PowerBook SCSI cable,
- SCSI extender (supplied with the external hard disk),
- ADB power cable (supplied with the external hard disk),
- SCSI host adapter boards (see the DCS 200 User's Manual for details).

*These cables are supplied with the KODAK Professional DCS 200 Digital Camera.

Updating the DCS 200 Camera's software and firmware

Before you use the external hard disk with your DCS 200 Digital Camera, and before you use it with your computer to obtain images, you must update the KODAK Professional DCS 200 Digital Camera's software and firmware to the latest versions.

Refer to the DCS 200 Camera's User's Manual for the procedures to do the software installation and firmware update. (see, "Installing the KODAK Driver for ADOBE Photoshop Software," "Installing the KODAK Driver for ALDUS PhotoStyler Software," and "Updating Camera Firmware in the DCS 200 Camera.")

Attaching the external hard disk to a camera

The DCS 200 Camera's User's Manual describes how to attach an external hard disk to your camera in the section, "Using the DCS 200 Camera with an external hard disk drive."

External Drive Power Supply voltage settings

CAUTION: An improperly selected voltage could injure you and seriously damage the equipment. Before plugging in your Power Supply, be sure to set the SELECTOR SWITCH for the electrical service for the country where you are using the Accessory.

To set the voltage:

1. Unplug the External Drive Power Supply from the Line Cord.
2. Use the tip of a ball-point pen to:
 - a. Slide the SELECTOR SWITCH to the 100 VAC position for use with 100 and 120 volt service or
 - b. Slide the SELECTOR SWITCH to the 240 VAC position for use with 220 and 240 volt service.

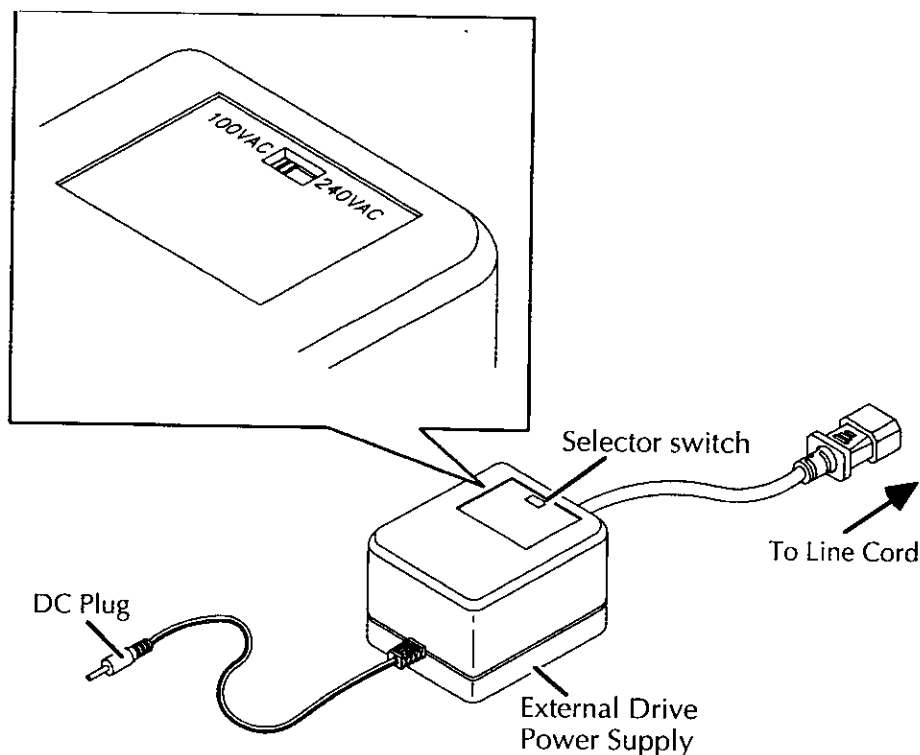


Figure 2—External Drive Power Supply voltage settings

MACINTOSH Computer SCSI connections

In this section you will learn how to set the SCSI ID on your external hard disk, and connect it to your MACINTOSH Computer.

Read the user's guide and reference manual that accompany your MASS Microsystems' external hard disk drive so that you will be familiar with its operation before you use it with the External Drive Power Supply and Terminator Accessory.

Instructions are included here for connecting a HitchHiker disk to your MACINTOSH Computer.

Supported MACINTOSH Computers

We have tested the MASS Microsystems' HitchHiker external hard disk with the following APPLE Computers:

- MACINTOSH II
- MACINTOSH IIci
- MACINTOSH IIcx
- MACINTOSH IIfx*
- MACINTOSH IIsi
- MACINTOSH IIvx
- MACINTOSH IIx
- MACINTOSH LC
- MACINTOSH PowerBook*
- MACINTOSH Quadra (models 900 and 950)*

* See "Special MACINTOSH Connections" on page 15 for more information.

NOTE: For compatibility with other MACINTOSH Computers, check the MASS Microsystems HitchHiker User's Manual or call MASS Microsystems' customer service center.

Special MACINTOSH connections

MACINTOSH IIx

The 25-pin terminator that is supplied with the External Drive Power Supply and Terminator Accessory cannot be used with the MACINTOSH IIx. The 25-pin terminator can cause the MACINTOSH IIx Computer to “crash.” To resolve this problem, you must connect the external hard disk directly to the MACINTOSH IIx and use the ADB power cable, or the External Drive Power Supply to power the external hard disk.

MACINTOSH Quadra

The external hard disk may not be able to physically connect (even with the SCSI extender) to the SCSI port on the back of the computer. In this case, use a 25-pin to 25-pin SCSI cable (a maximum cable length of 6 feet) to connect them together. Be sure to use the External Drive Power Supply and Terminator Accessory to provide power to the external hard disk.

NOTE: There may be some Quadra computer models where the external hard disk will directly connect to them. You will have to check the back of your computer to see if a direct connection is possible.

MACINTOSH PowerBook

You can operate the PowerBook with two 25-pin terminators and the External Drive Power Supply or without the 25-pin Terminator (using the 18-inch, 30-pin to 25-pin cable and the ADB power cable). When you use the two 25-pin terminators, you will have to obtain the second 25-pin terminator from a computer supply company (see below for a suggested company—there may be others).

If you use a PowerBook in stand-alone mode you will need an 18-inch, 30-pin to 25-pin cable. The 18-inch, 30-pin to 25-pin PowerBook cable is manufactured by INTEREX, and can be obtained from a computer supply company.

You can order the 25-pin terminator from KODAK Parts Services 24 hours a day, 7 days a week (except midnight to 7:00 a.m. Sunday morning) at **1-800-431-7278 (FAX 1-716-588-3051)**.

The part number for the 25-pin terminator is **966158**.

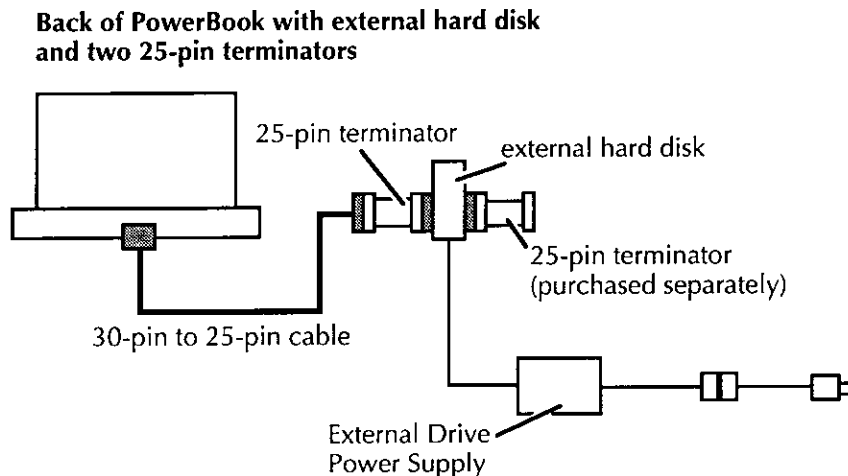


Figure 3—PowerBook termination

Setting the SCSI ID on the external hard disk

In these steps you will set the SCSI identification (ID) number for the external hard disk. Each SCSI device connected to the same computer must have a different ID number. Your MACINTOSH Computer is number 7, and the internal hard disk on your computer is probably number 0. Therefore, avoid numbers 0 and 7, since the external hard disk must have a unique SCSI ID.

In addition, the numbers 8 and 9 on the external hard disk are not valid SCSI ID numbers and should never be used. Do not use the same SCSI ID of a device that is in the SCSI chain because this will cause SCSI ID conflicts.

IMPORTANT: The external hard disk should be disconnected from the DCS 200 Camera before it is connected to your computer. The DCS 200 Camera and the external hard disk should not both be connected to your computer at the same time (even in a SCSI chain).

1. If the external hard disk is still connected to the DCS 200 Camera, disconnect it now as described in "Removing an external hard disk" in the DCS 200 Camera's User's Manual.
2. Locate the SCSI ID SELECTOR SWITCH on the side of the external hard disk. Note that an arrow in the center of the SELECTOR points to the current SCSI ID setting.
3. If a different SCSI ID setting is desired, use a small screwdriver to turn the SELECTOR until the arrow points to the SCSI ID you want.

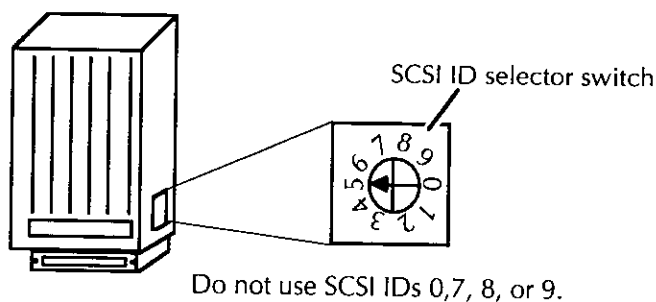


Figure 4—Setting the SCSI ID on the external hard disk for MACINTOSH Computer use

Connecting the external hard disk directly

In normal usage you may connect and disconnect the external hard disk from the MACINTOSH Computer on a regular basis; for this reason you may want to position your computer so that its SCSI connector is readily accessible.

IMPORTANT: You must supply power to the external hard disk before you turn on the power for your computer. Failure to do so, could result in the computer "hanging up" (you will have to re-start your computer).

Follow these steps to connect the external hard disk directly to your computer.

1. Set the SCSI ID on the external hard disk (see the previous page).
2. Turn off your MACINTOSH Computer and any connected devices.
3. If other SCSI devices are connected to your computer, disconnect the chain at the computer.
4. If the external hard disk is connected to your camera, remove it.
5. Connect the external hard disk directly to the SCSI port on your computer (hand-tighten the thumbscrews on the external hard disk); no cable is necessary. (You may need to use the SCSI extender provided with the HitchHiker as a spacer with some computers.)

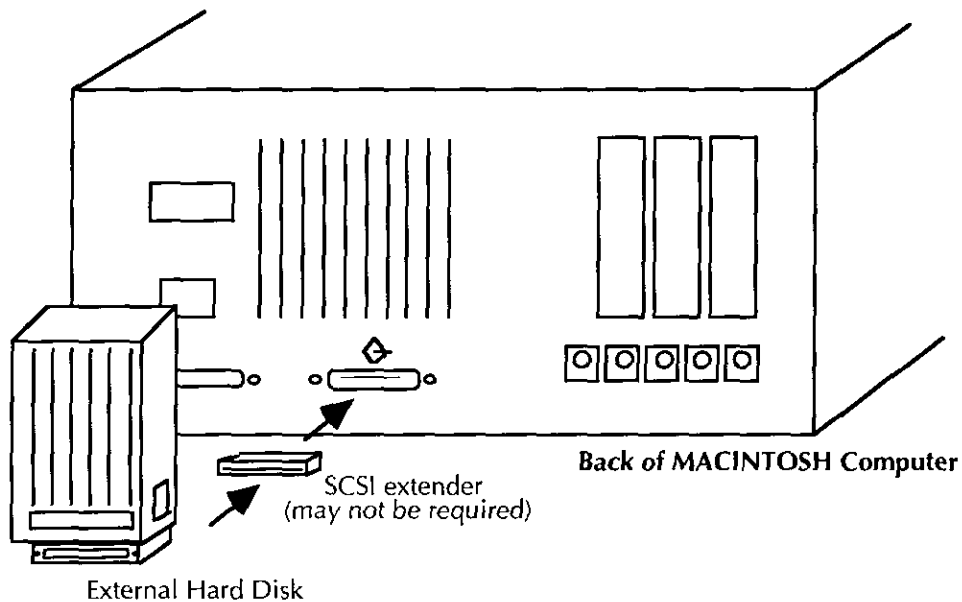


Figure 5—Connecting the external hard disk to MACINTOSH Computer

- 6.* Locate the ADB port on the back of your computer and disconnect the keyboard (or mouse) cable from the port.
7. Connect the ADB power cable to an ADB port and to the small connector on the side of the external hard disk as shown below. (The cable provides additional power to the external hard disk.)
8. Plug the keyboard (or mouse) cable into the ADB power cable as shown below.
9. Turn on the power for your MACINTOSH Computer.

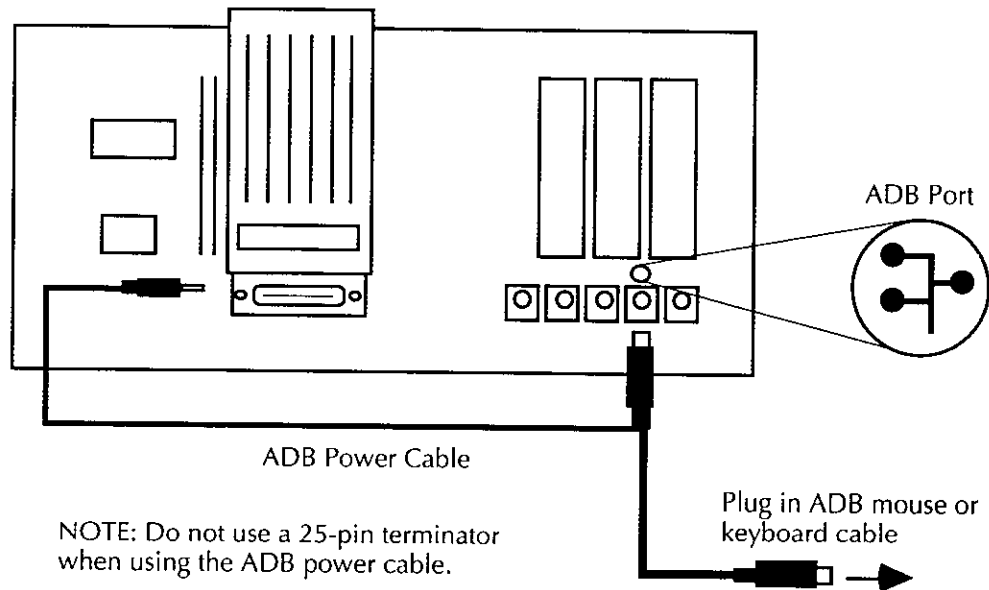


Figure 6—Connecting the ADB power cable to the MACINTOSH Computer

***NOTE:** The External Drive Power Supply can be used in place of the ADB power cable. If you do this, replace steps 6 through 8 above, with steps 6 through 9 on the next page—"Using a SCSI cable when the external hard disk is the sole device."

Using a SCSI cable when the external hard disk is the sole device

IMPORTANT: You must supply power to the external hard disk **before** you turn on the power for your computer. Failure to do so could result in the computer "hanging up" (you will have to re-start your computer). The following procedure does not apply to the MACINTOSH IIx Computer.

1. Turn off the computer.
2. Remove the external terminator from the computer (if present).
3. Connect one end of the 25-pin SCSI cable to the computer.
4. Connect the 25-pin terminator to the external hard disk using the thumbscrews on the hard disk to hold the terminator in place. Be sure to tighten (hand-tight) the thumbscrews.
5. Connect the other end of the 25-pin SCSI cable to the other side of the external hard disk.
6. Set the proper voltage on the External Drive Power Supply. Refer to the directions on page 13 of this supplement.
7. Insert the DC plug of the External Drive Power Supply into the socket of the external hard disk.
8. Connect the Line Cord to the External Drive Power Supply.
9. Insert the AC plug into the wall socket. The external hard disk will spin up.
10. Turn on the power for your MACINTOSH Computer.

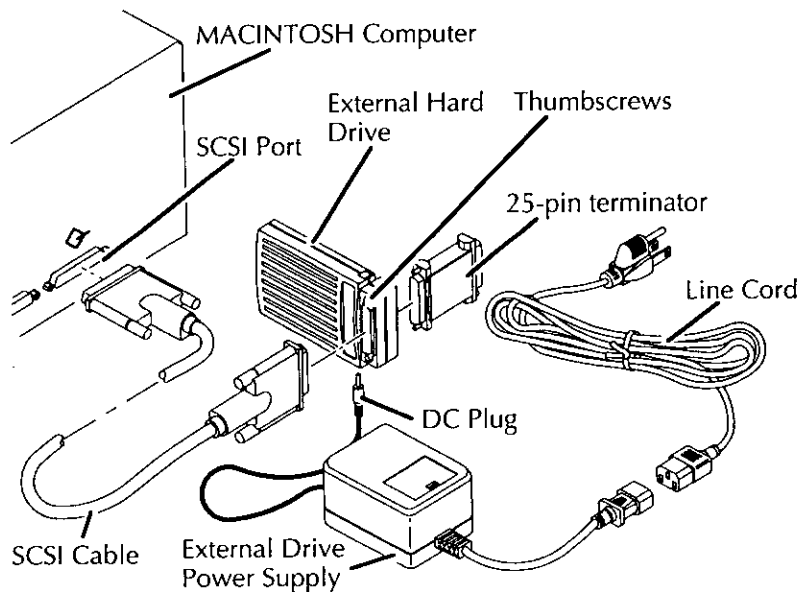


Figure 7—MACINTOSH SCSI connection: external hard disk is the sole device

When the external hard disk is attached via a SCSI chain

IMPORTANT: You must supply power to the external hard disk **before** you turn on the power for your computer. Failure to do so could result in the computer “hanging up” (you will have to re-start your computer). The external hard disk **must** be the last device connected in the SCSI chain. The following procedure does not apply to the MACINTOSH IIfx Computer.

1. Turn off the computer and all the devices in the SCSI chain.
2.
 - a. If the last device is internally terminated, de-activate or remove the device’s internal terminator (refer to that device’s user’s manual to do it).
 - b. If the last device is externally terminated, remove the external terminator.
3. Connect the 50-pin end of the SCSI cable to the last device’s SCSI port.
4. Connect the 25-pin terminator to the external hard disk using the thumbscrews on the hard disk to hold the terminator in place. Be sure to tighten (hand-tight) the thumbscrews.
5. Connect the 25-pin end of the SCSI cable to the other side of the external hard disk.
6. Set the proper voltage on the External Drive Power Supply. Refer to the directions on page 13 of this supplement.
7. Insert the DC plug of the External Drive Power Supply into the socket of the external hard disk.
8. Connect the Line Cord to the External Drive Power Supply.
9. Insert the AC plug into the wall socket. The external hard disk will spin up.
10. Turn on the power for your MACINTOSH Computer and the peripheral devices.

MACINTOSH Computer (except MACINTOSH IIfx)

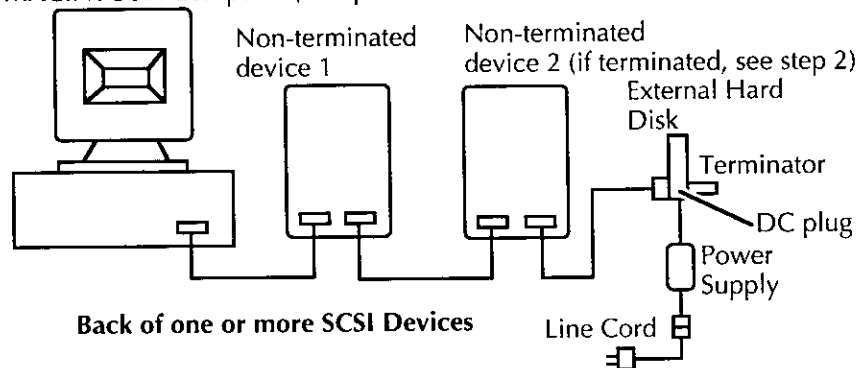


Figure 8—MACINTOSH SCSI connection: external hard disk attached in a SCSI chain

Accessing images from the external hard disk

Once the external hard disk is connected to your MACINTOSH Computer, all of the functionality of the KODAK Driver for ADOBE Photoshop Software is available to you. This includes observing thumbnails and previews of images, correcting color, acquiring images, deleting selected images, copying or moving selected images to archive files, erasing the hard disk, recovering the hard disk, formatting the hard disk, and so on. To access these features, follow these steps:

1. If your MACINTOSH Computer is off, turn it on. (There is no separate on/off switch for the external hard disk.)
2. Run ADOBE Photoshop.
3. Pull down the ADOBE Photoshop FILE menu and choose KODAK DCS 200 from the ACQUIRE submenu. (The submenu may show other options.)

The image window opens and displays thumbnails from the external hard disk. If the Driver is displayed in the FILE mode, change the SOURCE to EXT DISK.

4. Perform all functions in the same way that you would do for an internal hard disk in the Camera. Refer to the DCS 200 Digital Camera's User's Manual, "Using the DCS 200 Camera with a MACINTOSH Computer " for more details.

The following steps are the only differences when using the external hard disk rather than the Camera's hard disk. Otherwise, you use the external hard disk just like the DCS 200 Camera's internal hard disk.

5. (Optional step) Switch to an archive file by choosing FILE from the SOURCE pop-up menu.
6. (Optional step) Switch back to the external hard disk by choosing EXT DISK from the SOURCE pop-up menu.
7. Quit Photoshop when you have completed your work.

NOTE: When you remove the external hard disk be sure to turn off the power to the external hard disk, the computer, and any peripherals before you remove the external hard disk.

IBM PC or compatible computer SCSI connections

IMPORTANT: Always use the External Drive Power Supply and Terminator Accessory with an IBM PC or compatible computer.

In this section you will set the SCSI ID on your external hard disk, and connect it to your PC.

Read the user's guide and reference manual that accompany your MASS Microsystem's external hard disk drive so that you will be familiar with its operation before you use it with the External Drive Power Supply and Terminator Accessory.

Instructions are included here for connecting a HitchHiker disk to your IBM PC or compatible computer.

NOTE: For more information on the Future Domain SCSI Host Adapter, refer to the DCS 200 Camera's User's Manual, "Using the DCS 200 Camera with a PC."

Setting the SCSI ID on the external hard disk

These steps explain how to set the SCSI identification (ID) number for the external hard disk. Each SCSI device connected to the same computer must have a different SCSI ID number. Do not use SCSI identification numbers 6 and 7. The Future Domain board uses SCSI ID 6, and the board will not recognize 7 as a valid SCSI ID number. In addition, the numbers 8 and 9 on the external hard disk are not valid SCSI numbers and should never be used.

IMPORTANT: The external hard disk should be disconnected from the DCS 200 Camera before it is connected to your computer. The DCS 200 Camera and the external hard disk should not both be connected to your computer at the same time (even in a SCSI chain).

1. If the external hard disk is still connected to the DCS 200 Camera, disconnect it now as described in, "Removing an external hard disk" in the DCS 200 Camera's User's Manual.
2. Locate the SCSI ID SELECTOR SWITCH on the side of the external hard disk. Note that an arrow in the center of the SELECTOR points to the current SCSI ID setting.
3. If a different SCSI ID setting is desired, use a small screwdriver to turn the SELECTOR until the arrow points to the SCSI ID you want.

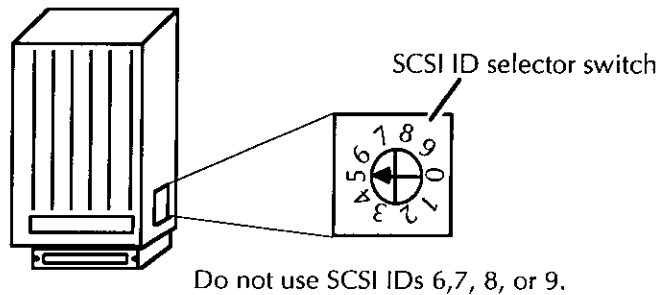


Figure 9—Setting the SCSI ID on the external hard disk for IBM PC Computer use

Using a SCSI cable when the external hard disk is the sole device

IMPORTANT: You must supply power to the external hard disk **before** you turn on the power for your computer. Failure to do so could result in the computer “hanging up” (you will have to re-start your computer). The external hard disk **must** be the last device in the SCSI chain.

1. Turn off the PC .
2. Connect the 50-pin HD connector of the SCSI cable to the SCSI interface adapter board.
3. Connect the 25-pin terminator to the external hard disk using the thumbscrews on the hard disk to hold the terminator in place. Be sure to tighten (hand-tight) the thumbscrews.
4. Connect the 25-pin end of the SCSI cable to the other side of the external hard disk.
5. Set the proper voltage on the External Drive Power Supply. Refer to the directions on page 13 of this supplement.
6. Insert the DC plug of the External Drive Power Supply into the socket of the external hard disk.
7. Connect the Line Cord to the External Drive Power Supply.
8. Insert the AC plug into the wall socket. The external hard disk will spin up.
9. Turn on the power for your IBM PC or compatible computer.

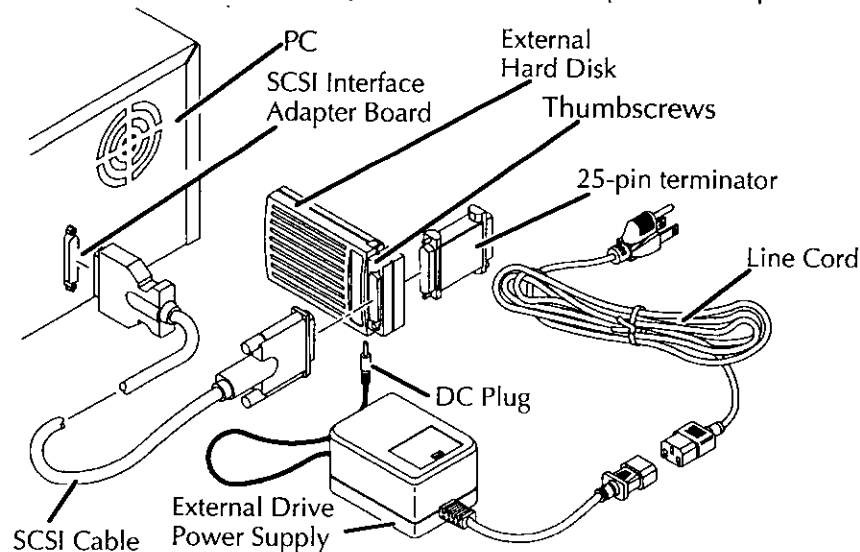


Figure 10—IBM PC or compatible computer SCSI connection: external hard disk is the sole device

When the external hard disk is attached via a SCSI chain

IMPORTANT: You must supply power to the external hard disk **before** you turn on the power for your computer. Failure to do so, could result in the computer “hanging up” (you will have to re-start your computer). The external hard disk **must** be the last device in the SCSI chain.

1. Turn off the computer and all the devices in the SCSI chain.
2.
 - a. If the last device is internally terminated, de-activate or remove the device’s internal terminator (refer to that device’s user’s manual to do it).
 - b. If the last device is externally terminated, remove the external terminator.
3. Connect the 50-pin end of the SCSI cable to the last device’s SCSI port.
4. Connect the 25-pin terminator to the external hard disk using the thumbscrews on the hard disk to hold the terminator in place. Be sure to tighten (hand-tight) the thumbscrews.
5. Connect the 25-pin end of the SCSI cable to the other side of the external hard disk.
6. Set the proper voltage on the External Drive Power Supply. Refer to the directions on page 13 of this supplement.
7. Insert the DC plug of the External Drive Power Supply into the socket of the external hard disk.
8. Connect the Line Cord to the External Drive Power Supply.
9. Insert the AC plug into the wall socket. The external hard disk will spin up.
10. Turn on the power for your computer and the peripheral devices.

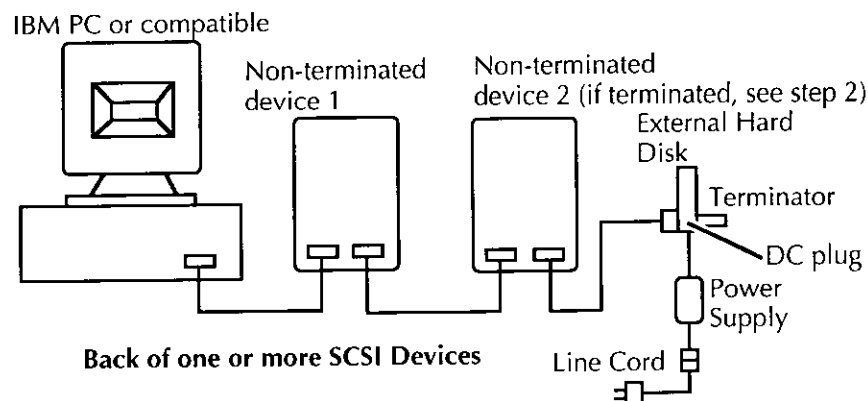


Figure 11—IBM PC or compatible computer SCSI connection: external hard disk in a SCSI chain

Accessing images from the external hard disk

Once the external hard disk is connected to your PC, all of the functionality of the driver for ALDUS PhotoStyler Software is available to you. This includes observing thumbnails and previews of images, correcting color, acquiring images, deleting selected images, copying or moving selected images to archive files, erasing the hard disk, recovering the hard disk, formatting the hard disk, and so on. To access these features, follow the steps below:

1. If your PC is off, turn it on. (There is no separate on/off switch for the external hard disk.)
2. Run ALDUS PhotoStyler.
3. Pull down the ALDUS PhotoStyler FILE menu and choose KODAK DCS 200 from the IMPORT submenu. (The submenu may show other options.)

The image window opens and displays thumbnails from the external hard disk. If the Driver is displayed in the FILE mode, change the SOURCE to EXT DISK.

4. Perform all functions in the same way that you would do for an internal hard disk in the Camera. Refer to the DCS 200 Digital Camera's User's Manual, "Using the DCS 200 Camera with a PC" for more details.

The following steps are the only differences when using the external hard disk rather than the Camera's hard disk. Otherwise, you use the external hard disk just like the DCS 200 Camera's internal hard disk.

5. (Optional step) Switch to an archive file by choosing FILE from the SOURCE drop-down list box.
6. (Optional step) Switch back to the external hard disk by choosing EXT DISK from the SOURCE drop-down list box.
7. Quit PhotoStyler when you have completed your work.

NOTE: When you remove the external hard disk be sure to turn off the power to the external hard disk, the computer, and any peripherals before you remove the external hard disk.

Troubleshooting

If you are experiencing difficulty using the computer with the external hard disk, refer to the following troubleshooting table. For service problems (repair or replacement of malfunctioning equipment) call the KODAK Customer Assistance Center (KCAC) at 1-800-242-2424, extension 77.

Trouble	Possible Cause	Suggested Solution
Problems with the external hard disk—erratic data	SCSI identification conflict; the SCSI ID is incorrectly set.	<p>On MACINTOSH Computers, check to be sure the external hard disk is set to a SCSI identification other than 0 or 7. (SCSI IDs 8 & 9 on the external hard disk are not valid IDs.)</p> <p>On IBM PC or compatible computers, check to be sure the external hard disk is set to a SCSI identification other than 6 or 7. (SCSI IDs 8 & 9 on the external hard disk are not valid IDs.)</p>
Problems reading data from the external hard disk or from the computer.	Turning on the computer before the external hard disk.	Apply power to the external hard disk before turning on the computer. (Try again, if the problem keeps occurring.)
Bad data; lost information in the image; unreadable data.	Corrupted data.	<p>Copy any images you wish to keep to your computer's hard disk.</p> <p>Reformat the external hard disk using the DCS 200's Control Panel (FORMAT).</p> <p>NOTE: All data on the external hard disk will be lost and will not be recoverable.</p>

Trouble	Possible Cause	Suggested Solution
The computer "hangs;" no images displayed.	SCSI cable length is too long.	Shorten the length of the cable(s) that you are using. If you have many devices in a SCSI chain—reduce the number of items and reconnect the chain using less devices.
The MACINTOSH IIx Computer does not "boot up" (nothing is displayed on the screen).	The MACINTOSH Computer's hard disk could be corrupted (crashed). Incorrect termination.	Connect the external hard disk directly to the back of the MACINTOSH IIx. Do not use the KODAK supplied terminator with the MACINTOSH IIx. See the appropriate section in the DCS 200 User's Manual for specifications on the MACINTOSH IIx.
The MACINTOSH PowerBook "hangs" or cannot "boot."	Using the PowerBook with the ADB power cable connected to the external hard disk.	<ol style="list-style-type: none"> 1. Remove all external terminators or, 2. Use 2 external terminators and the External Hard Disk Power Supply and Terminator Accessory. <p>NOTE: The second terminator is not supplied by KODAK.</p>
	SCSI cable length is too long.	Use an 18-inch, 30-pin to 25-pin SCSI cable.
The MACINTOSH PowerBook "locks up," is operating erratically; loss of images.	<ol style="list-style-type: none"> 1. Using the 25-pin terminator without the External Drive Power Supply. 2. The External Drive Power Supply is malfunctioning. 	<ol style="list-style-type: none"> 1. Connect the External Drive Power Supply. 2. Replace the External Drive Power Supply.
	SCSI cable length is too long.	Use an 18-inch, 30-pin to 25-pin SCSI cable.

Trouble	Possible Cause	Suggested Solution
The external hard disk does not spin up.	1. The power from the ADB may not be enough.	1. Connect the External Driver Power Supply.
	2. Incorrect External Drive Power Supply voltage settings.	2. Set the switch setting to the correct voltage.
	3. Power connections are loose.	3. Secure all connections (make sure there are no loose connections).
	4. The External Drive Power Supply is malfunctioning.	4. Replace the External Drive Power Supply.
The external hard disk is erratic (missing data, etc.).	1. Loose connections in the SCSI chain.	1. Tighten (hand-tight) the terminator's thumbscrews.
	2. Incorrect External Drive Power Supply voltage settings.	2. Set the switch setting to the correct voltage.
	3. Power connections are loose.	3. Secure all connections (make sure there are no loose connections).
	4. The External Drive Power Supply is malfunctioning.	4. Replace the External Drive Power Supply.

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WARRANTY

External Drive Power Supply and Terminator Accessory

THIS WARRANTY APPLIES TO EQUIPMENT PURCHASED IN THE UNITED STATES.

Warranty time period

Kodak warrants your External Drive Power Supply and Terminator Accessory to be free from malfunctions and defects in both materials and workmanship for 90 days from the date of purchase.

Warranty Repair Coverage

If this equipment does not function properly during the warranty period, due to defects in either materials or workmanship, Kodak will, at its option, either repair or replace the equipment, without charge, subject to the conditions and limitations stated herein. Such repair service will include all labor as well as any necessary adjustments and/or replacement parts.

If replacement parts are used in making repairs, these parts may be remanufactured, or may contain remanufactured materials. If it is necessary to replace the entire system, it may be replaced with a remanufactured system. If it should become necessary to repair or replace a malfunctioning or defective system, the provisions of this warranty shall apply to the repaired or replaced system until the expiration of 30 days from the date of return, or until the end of the original 90 day warranty period, whichever is later.

Kodak will also provide telephone assistance during the warranty period.

Limitations

Warranty service will not be provided without dated proof of purchase. As a condition of warranty service, before sending in your unit to the nearest service center for repair, you must first contact a Kodak representative for return authorization and instructions.

This warranty becomes null and void if, during shipment, you fail to pack your External Drive Power Supply and Terminator Accessory in a manner consistent with the original packaging.

This warranty does not cover the following: circumstances beyond Kodak's control; service or parts to correct problems resulting from the use of attachments, accessories or alterations not marketed by Kodak; unauthorized modifications or service; misuse; abuse; failure to follow Kodak's operating, or maintenance instructions; or failure to use Kodak supplied items.

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How to obtain service

In the United States, call the Kodak Customer Assistance Center (KCAC) at 1-800-242-2424, extension 77 between the hours of 8:00 a.m. and 8:00 p.m. (eastern time zone), Monday through Friday.

In other countries, call your nearest Kodak representative.

If service is required, your Kodak representative will instruct you to return the unit to the nearest service center for repair and will issue you a return authorization number.

When returning an External Drive Power Supply and Terminator Accessory for repair, the unit shall be packed in its original packing materials. Please provide a written description of the problem. If the original packaging has been discarded or is not available, packaging will be at the owner's expense.

Return of the repaired or replaced unit to the customer can be expected five to seven days from the date the External Drive Power Supply and Terminator Accessory arrives at the service center.

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